

Fig. 1

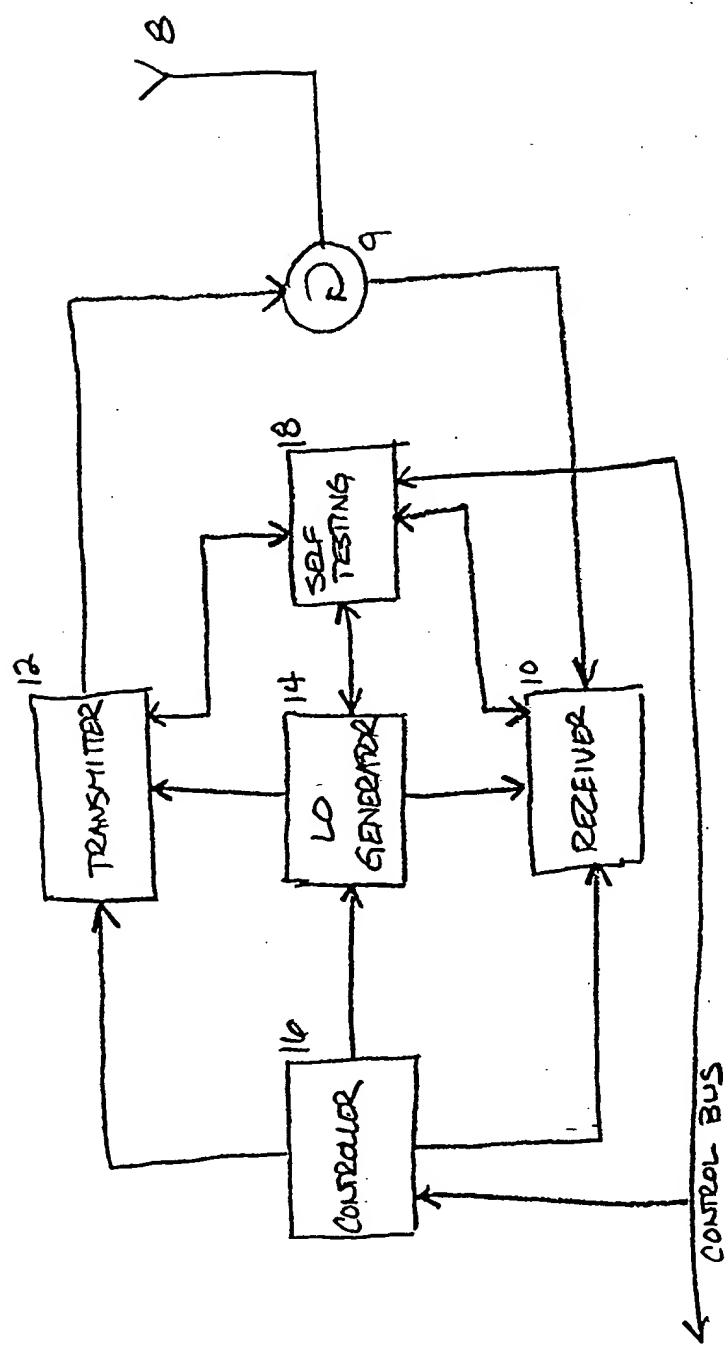


Fig. 2

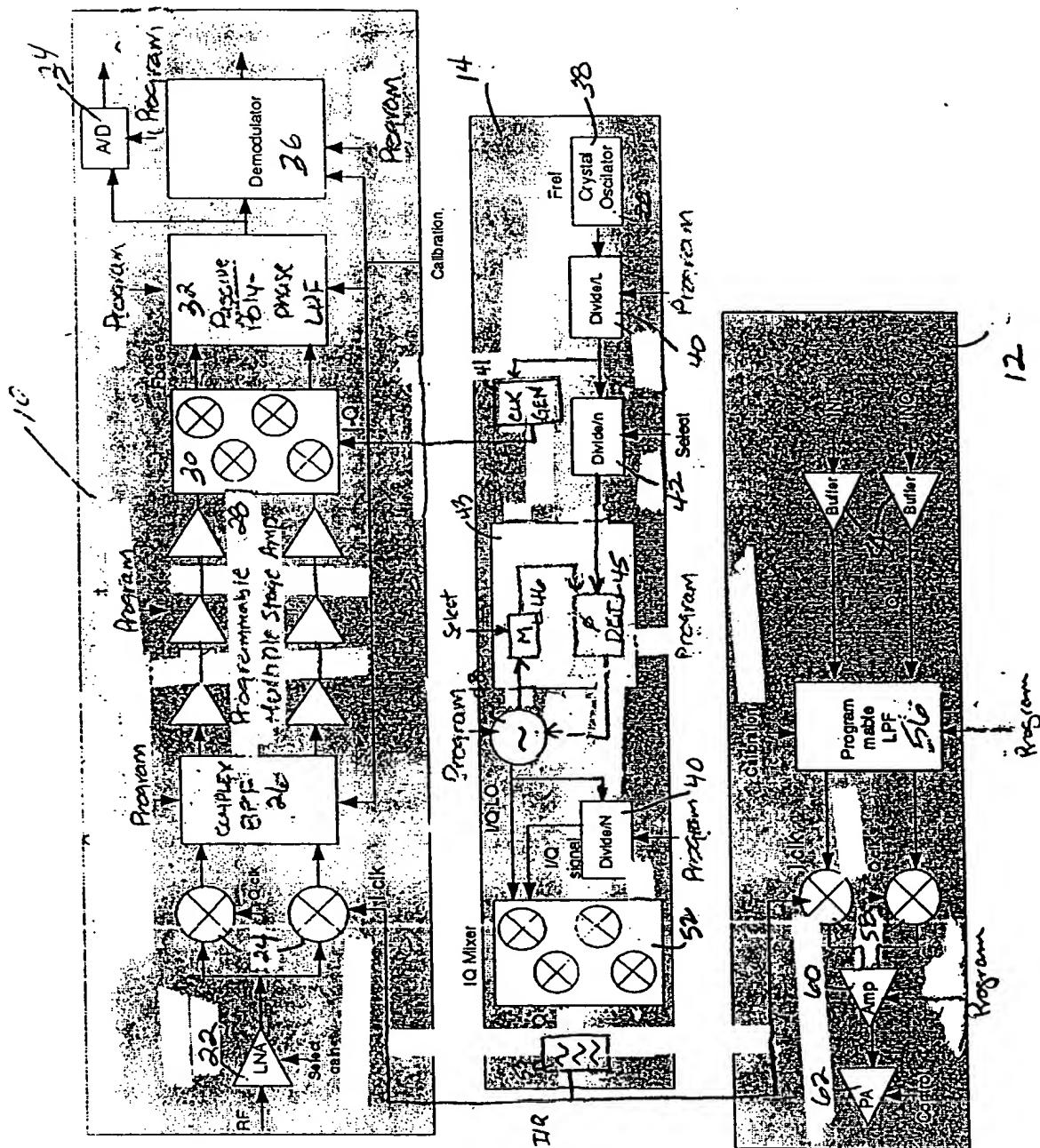
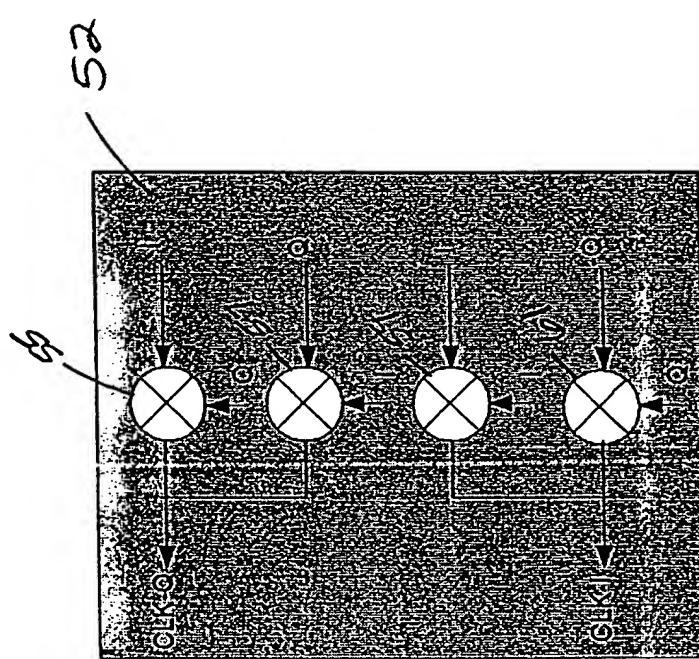


FIG. 3



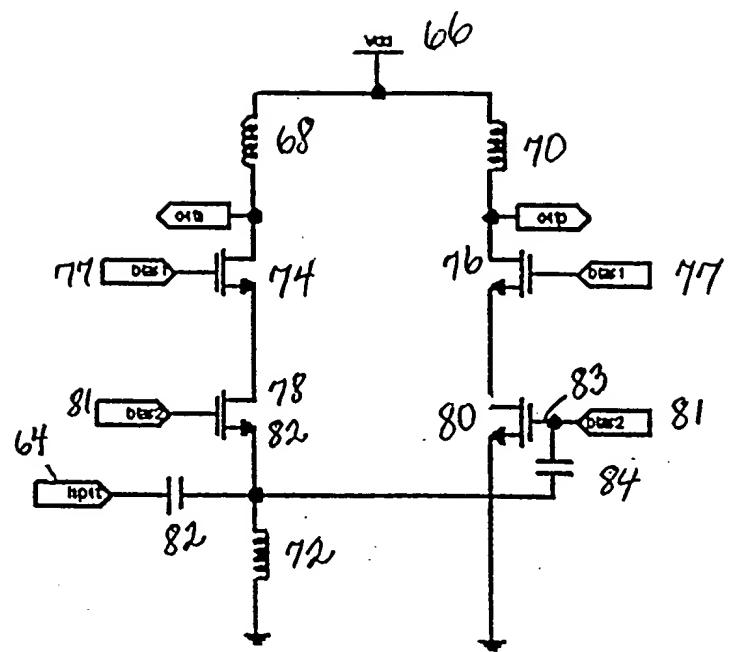


FIG. 4

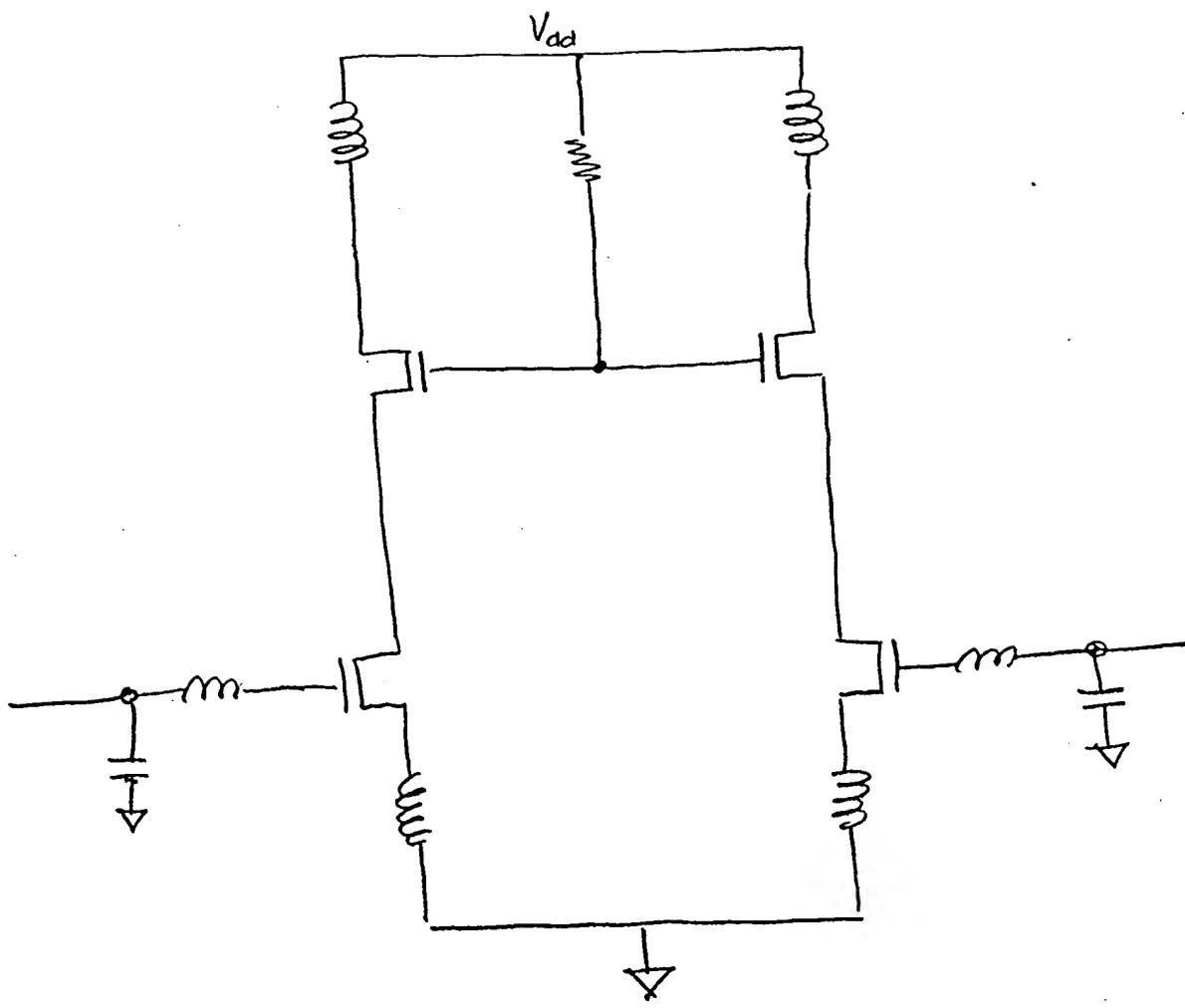
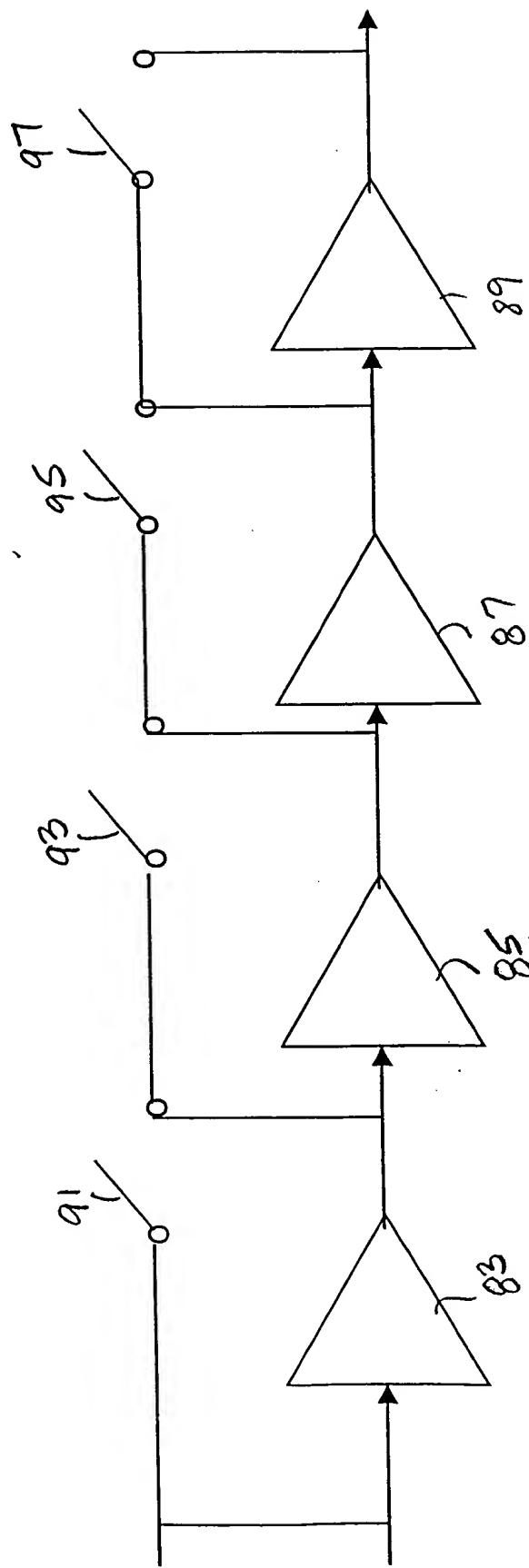


FIG. 4 (a)

FIG. 5



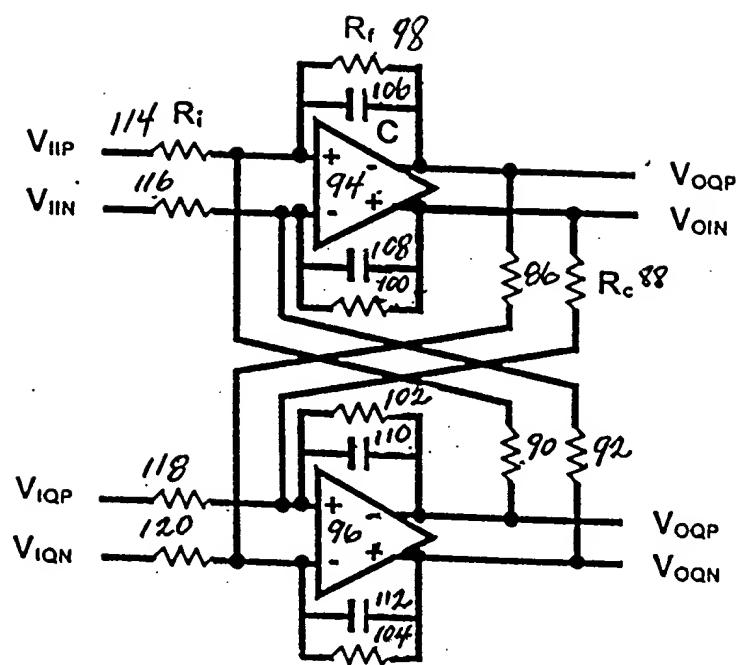


FIG. 6

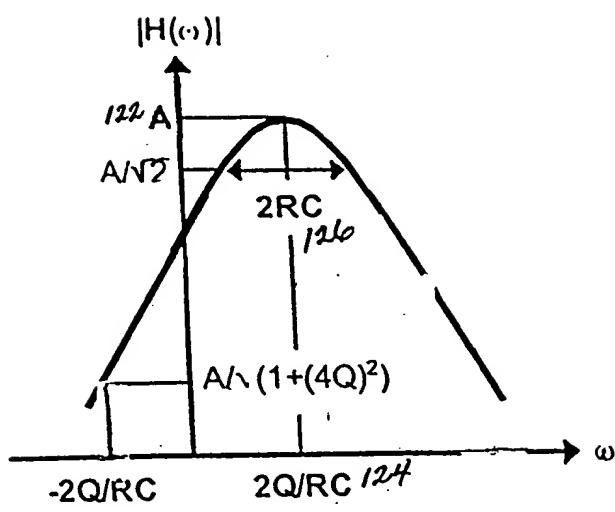


FIG. 7

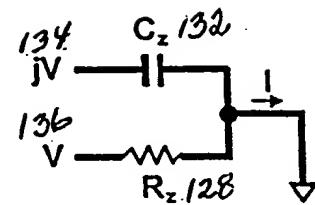
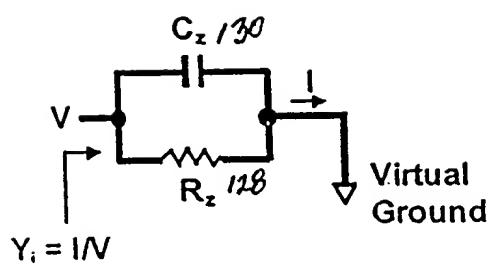


FIG. 9

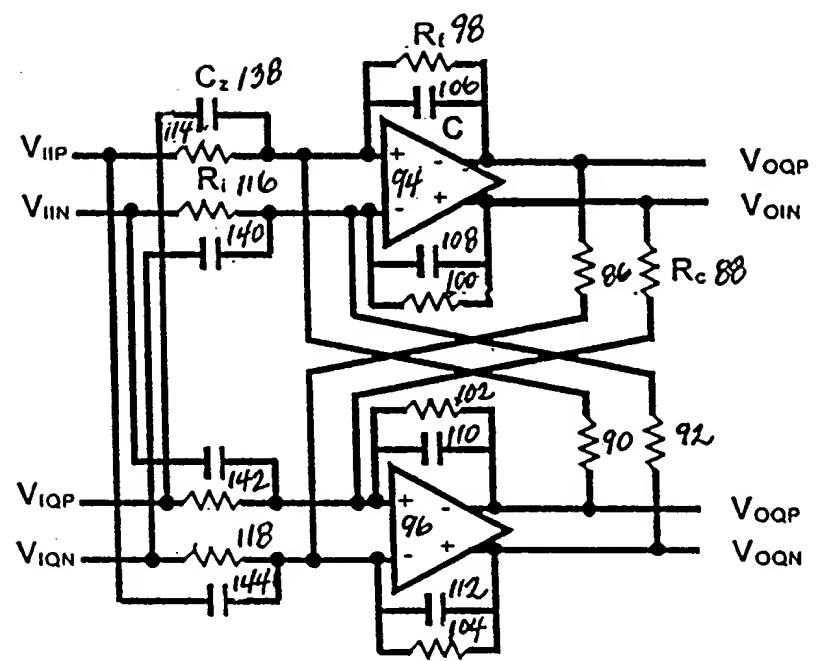


FIG. 10

146

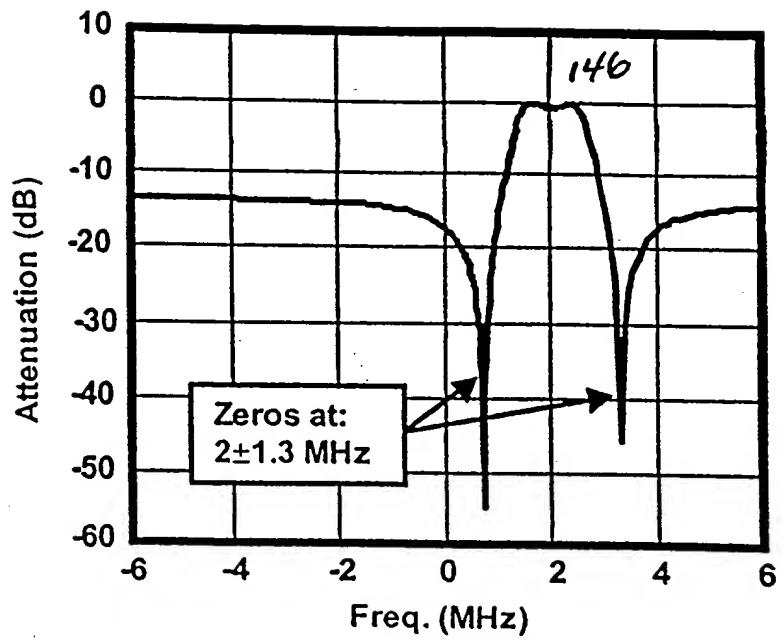


FIG. 11

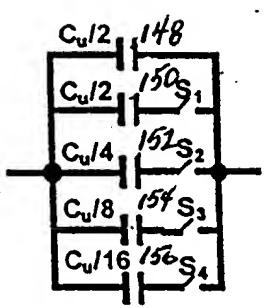


FIG. 12(a)

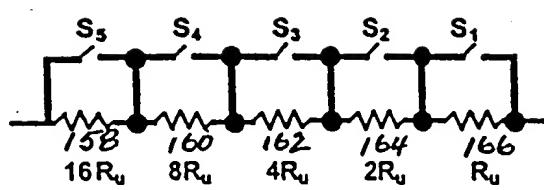


FIG. 12(b)

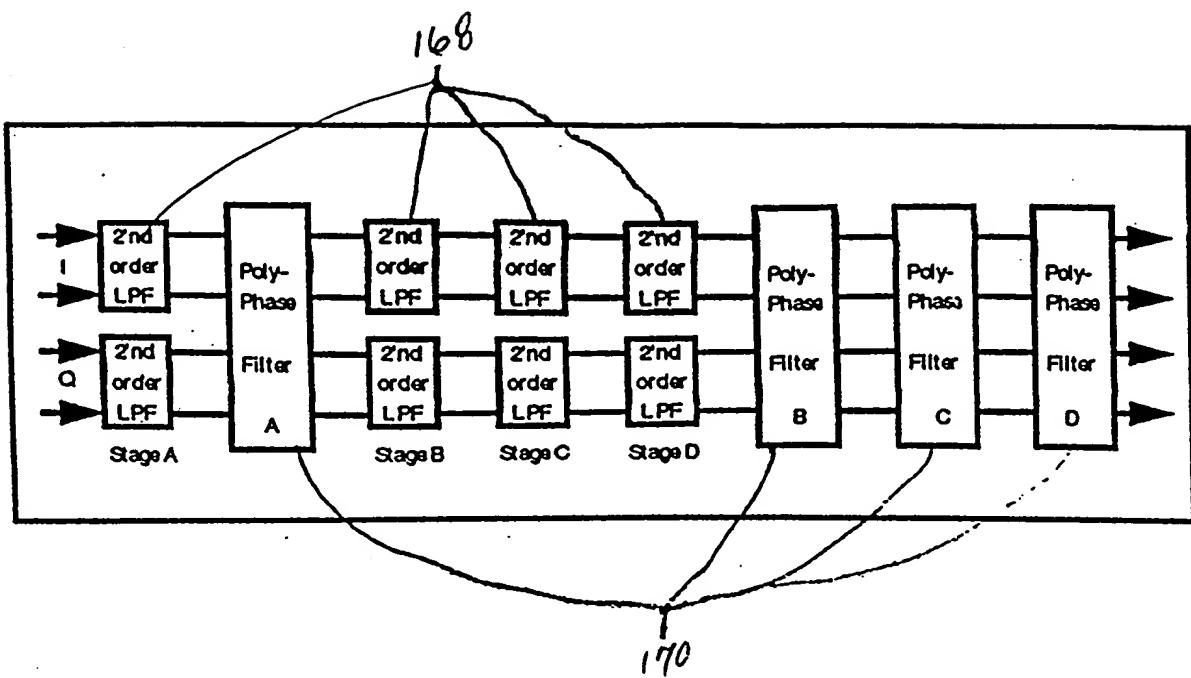


FIG. 13

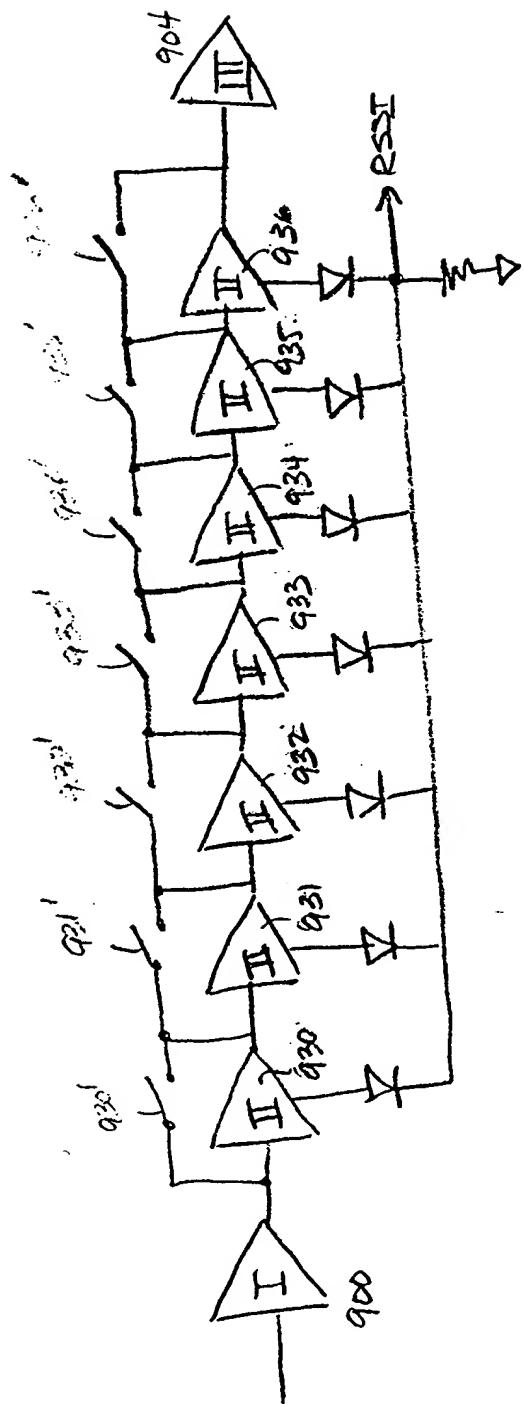


FIG. 14

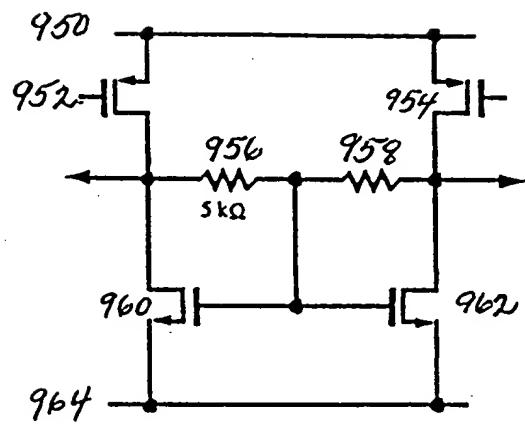


FIG. 15

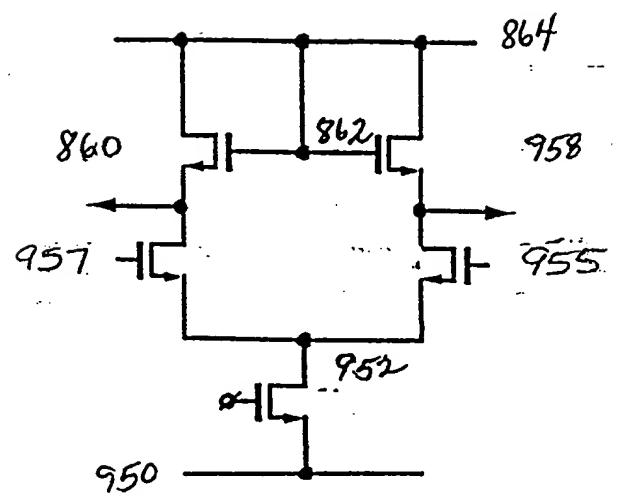


FIG. 16(a)

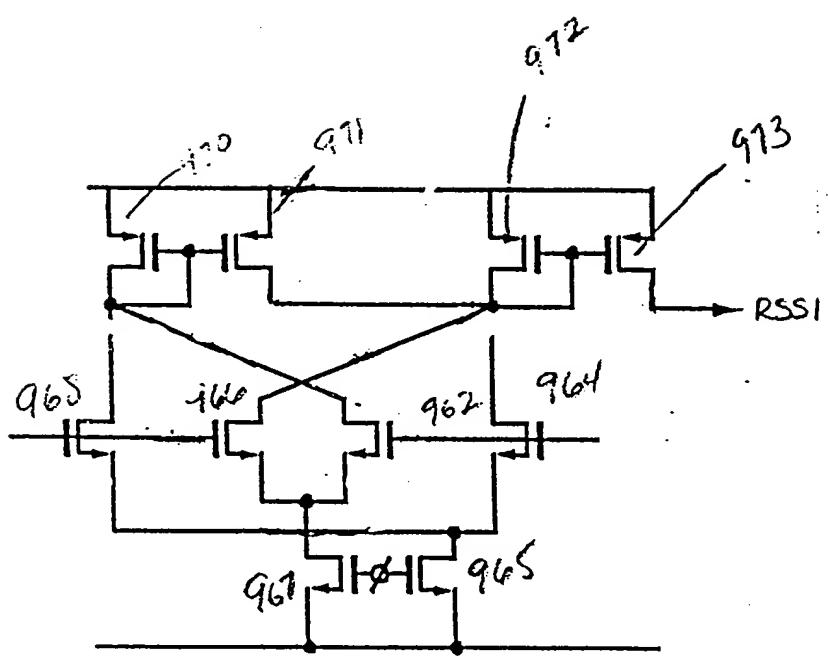


FIG. 16(b)

FIG. 17(a)

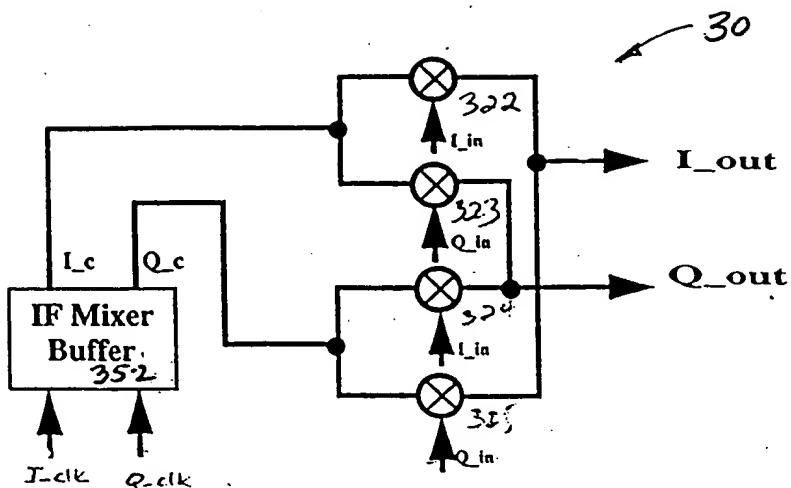
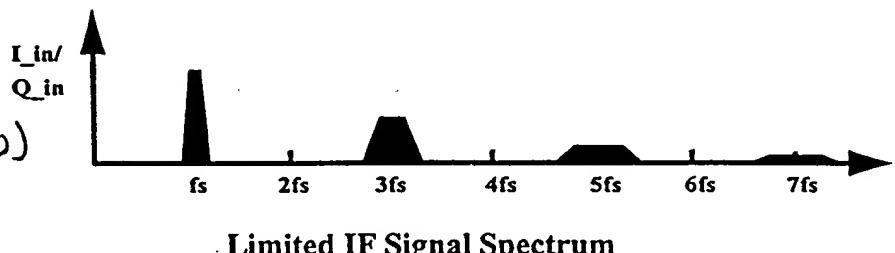
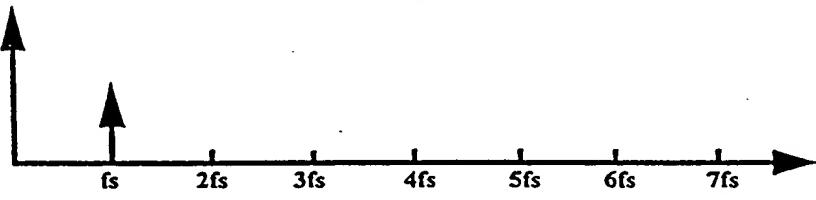


FIG. 17(b)



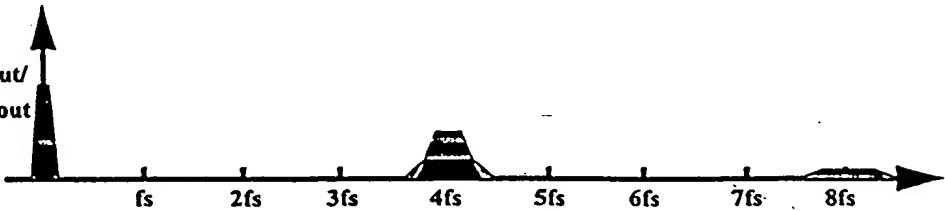
Limited IF Signal Spectrum

FIG. 17(c)



Sinusoidal Input Spectrum

FIG. 17(d)



IF Mixer Output Spectrum

FIG. 18

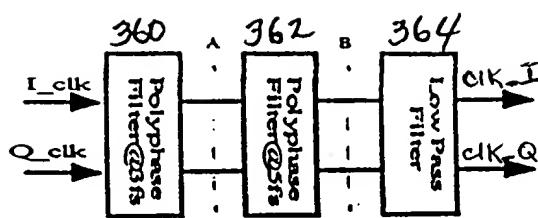


FIG. 19(a)

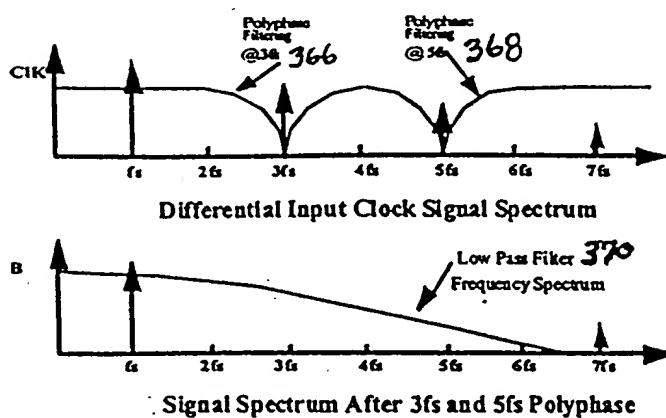


FIG. 19(b)

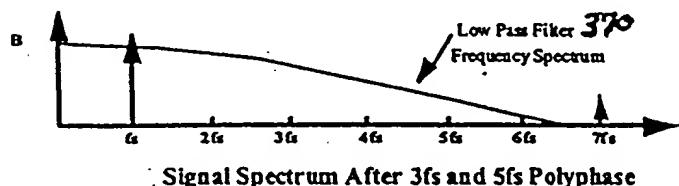


FIG. 19(c)

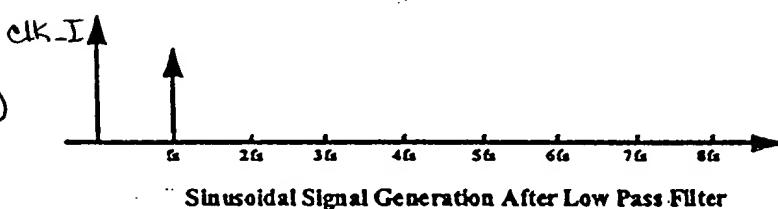


FIG. 19d

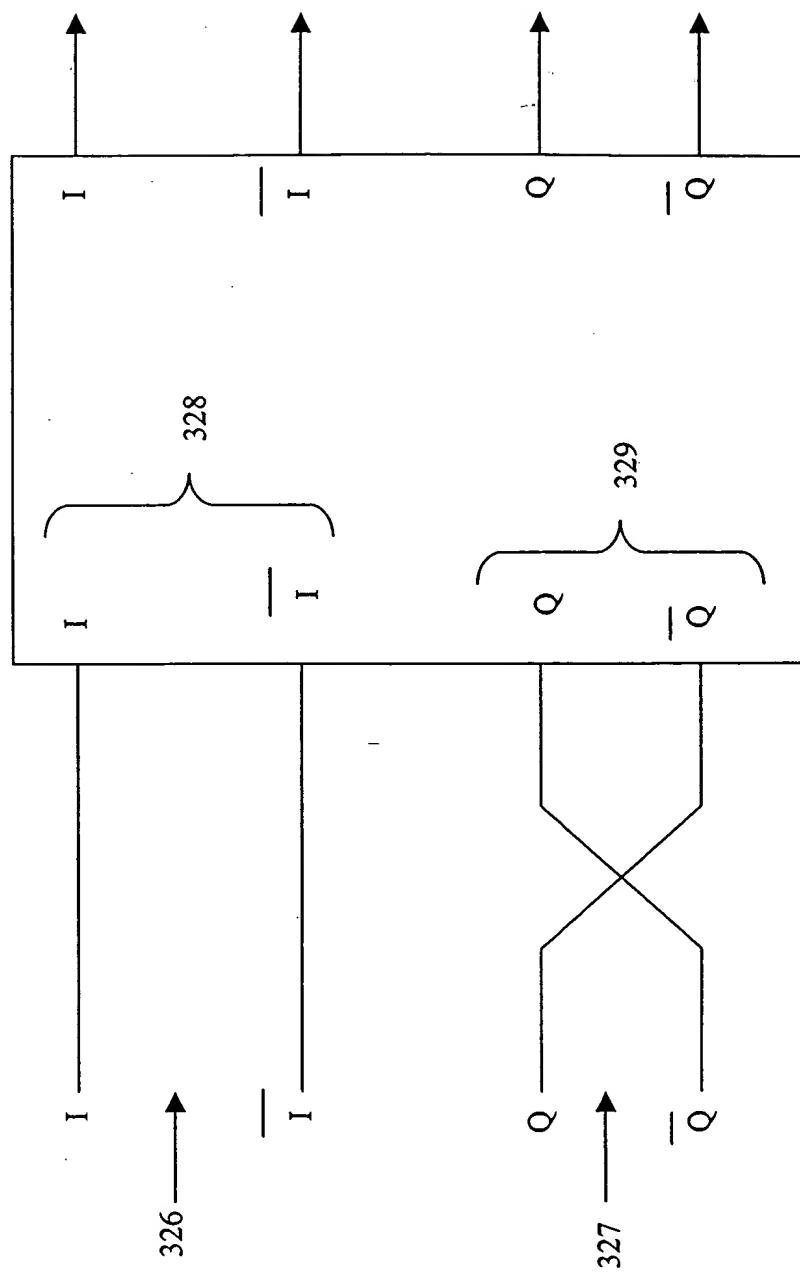


FIG. 19e

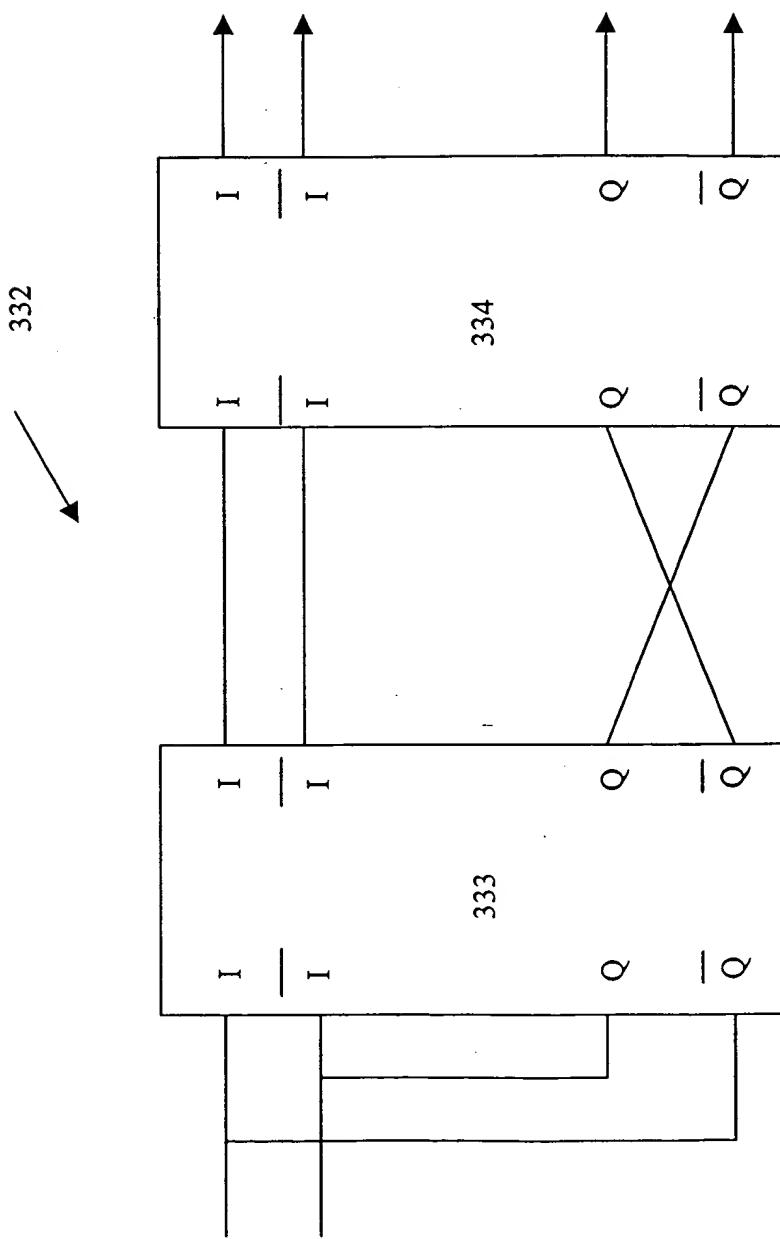


FIG. 19f

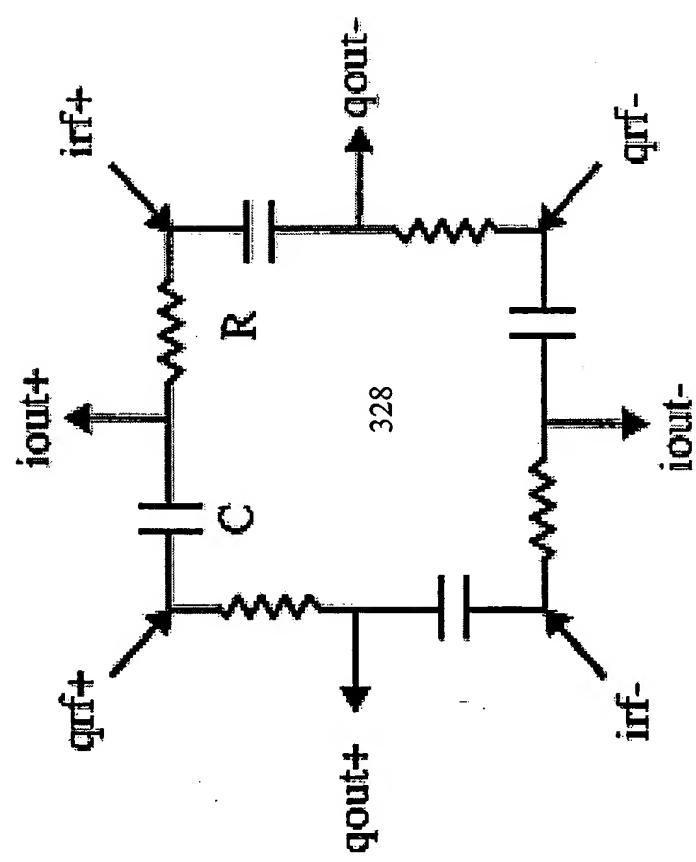
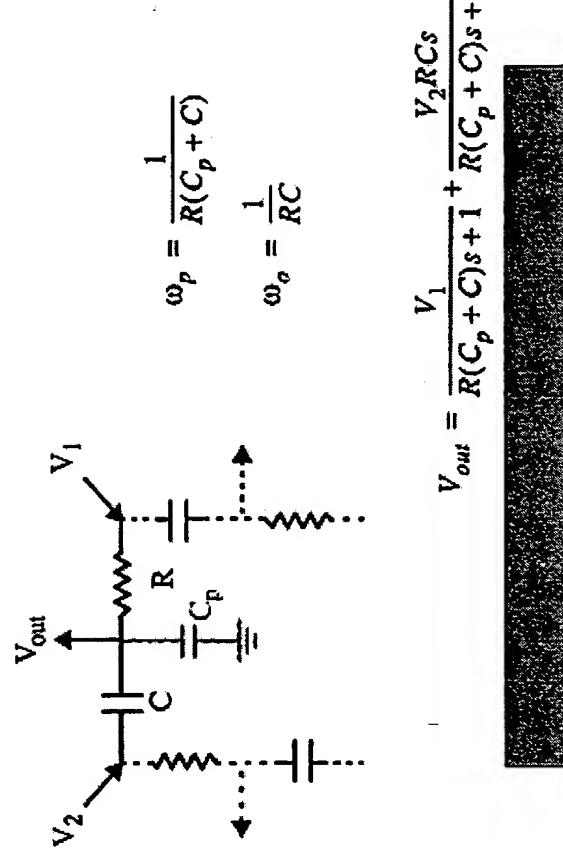


FIG. 19g



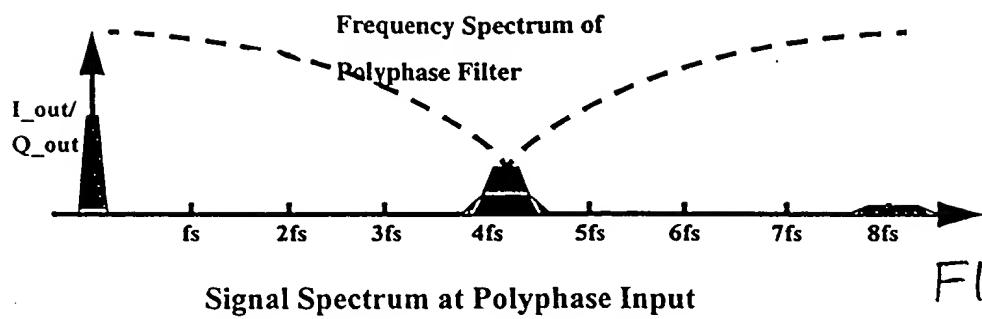


FIG. 20(a)

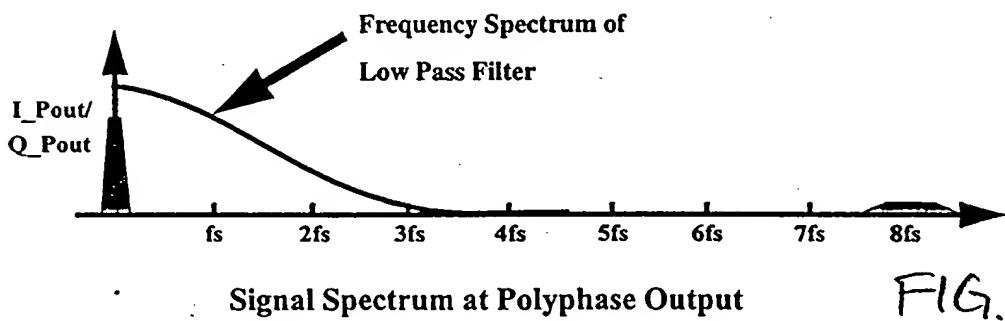


FIG. 20(b)

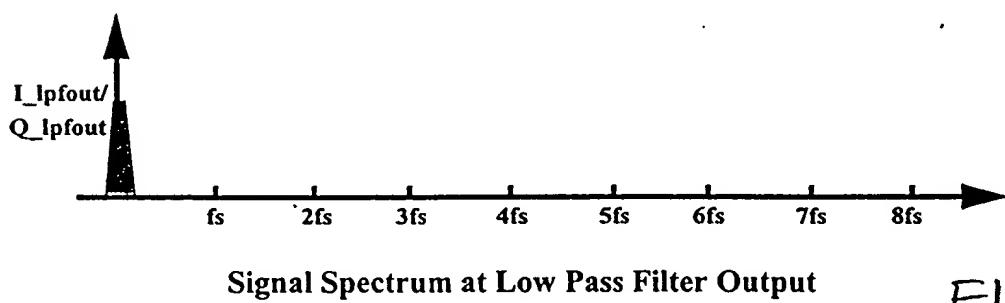


FIG. 20(c)

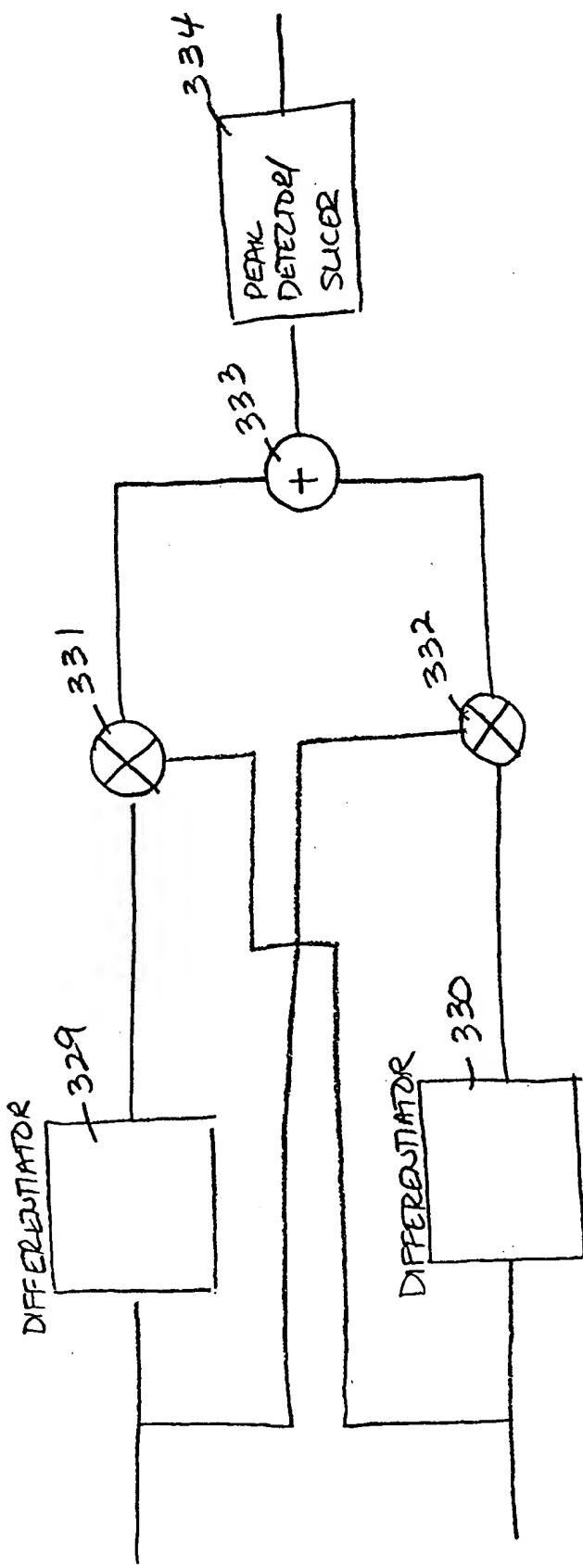


FIG. 21

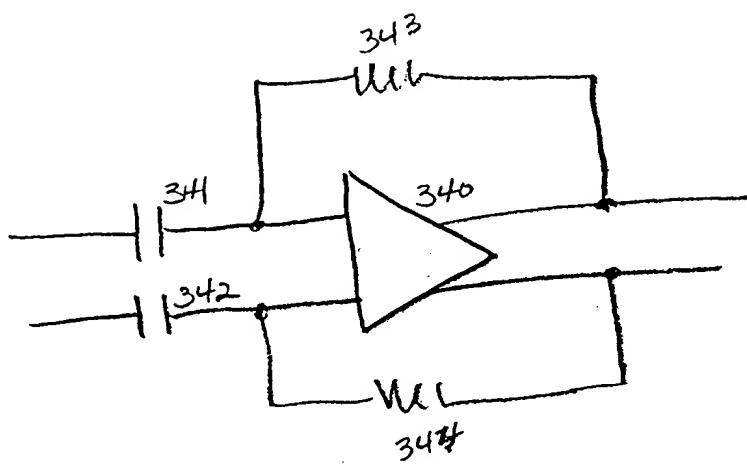


FIGURE 22

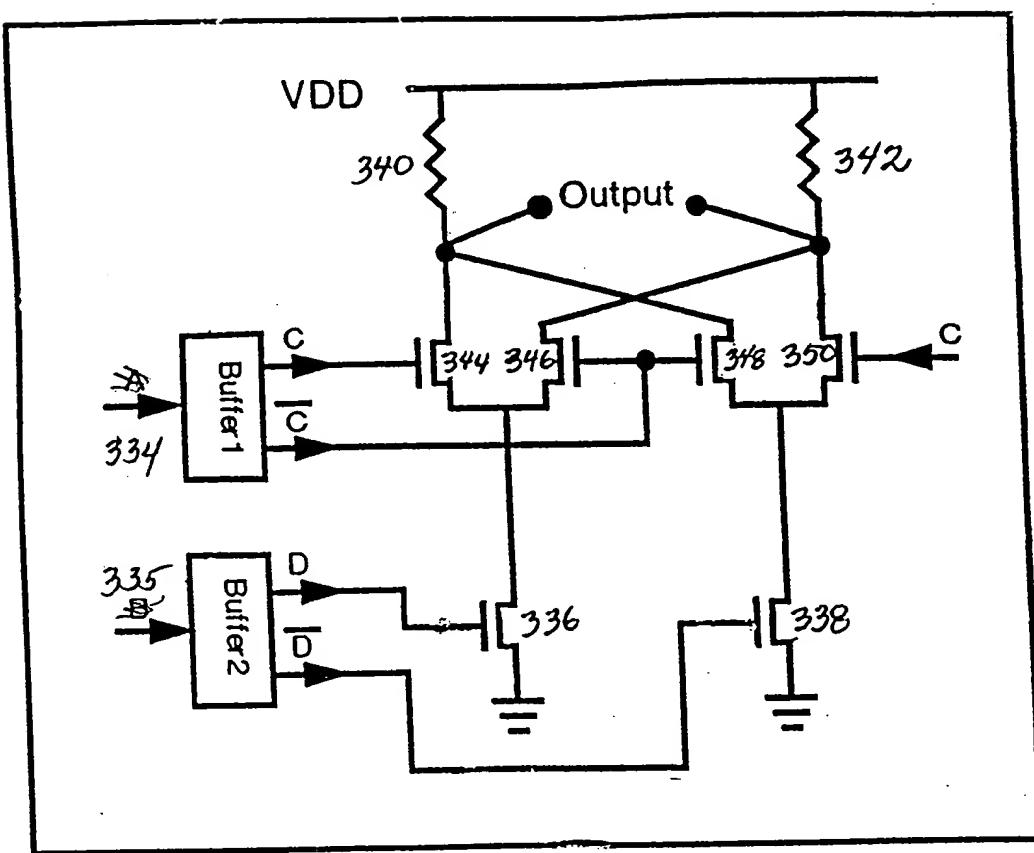
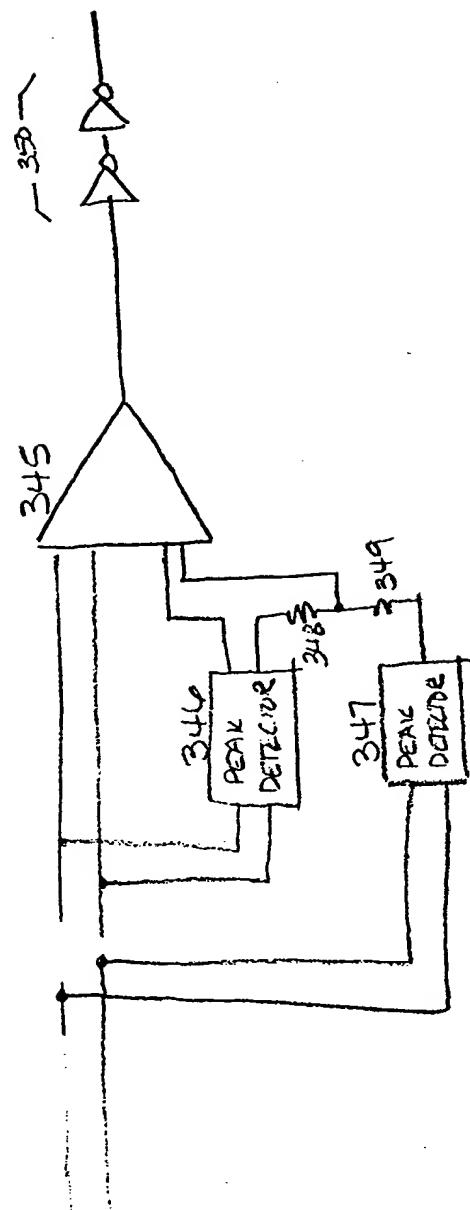


FIG. 23

FIGURE 24



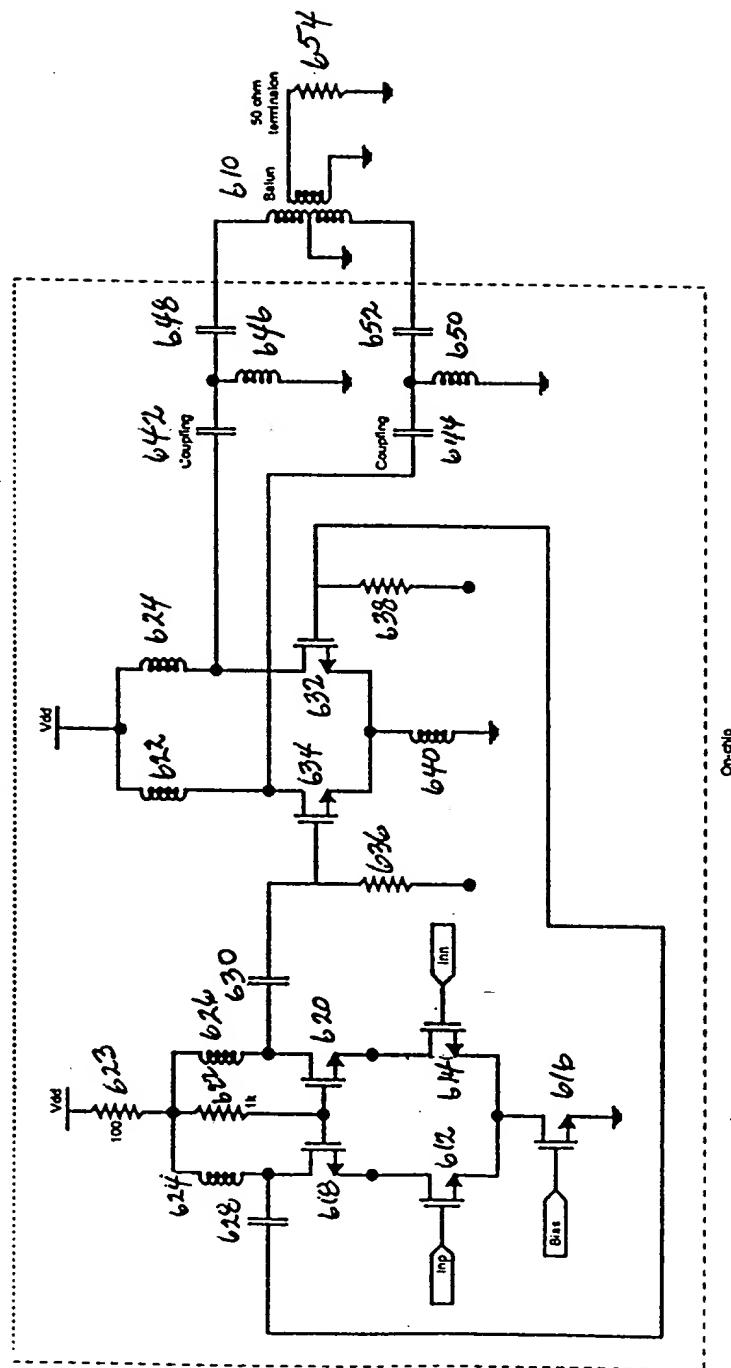


Fig. 25

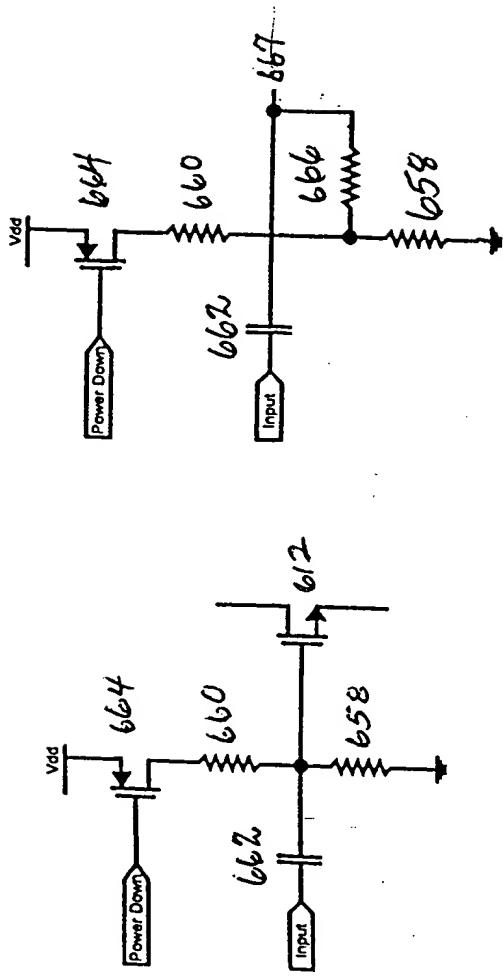


FIG. 26(a)

FIG. 26(b)

616 670
692

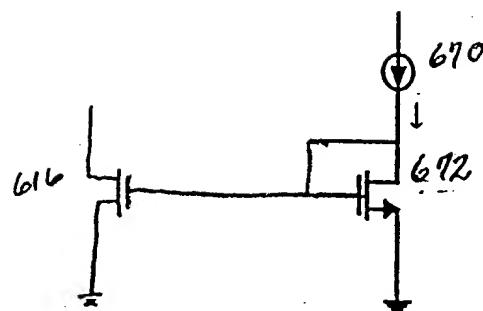


FIG. 27

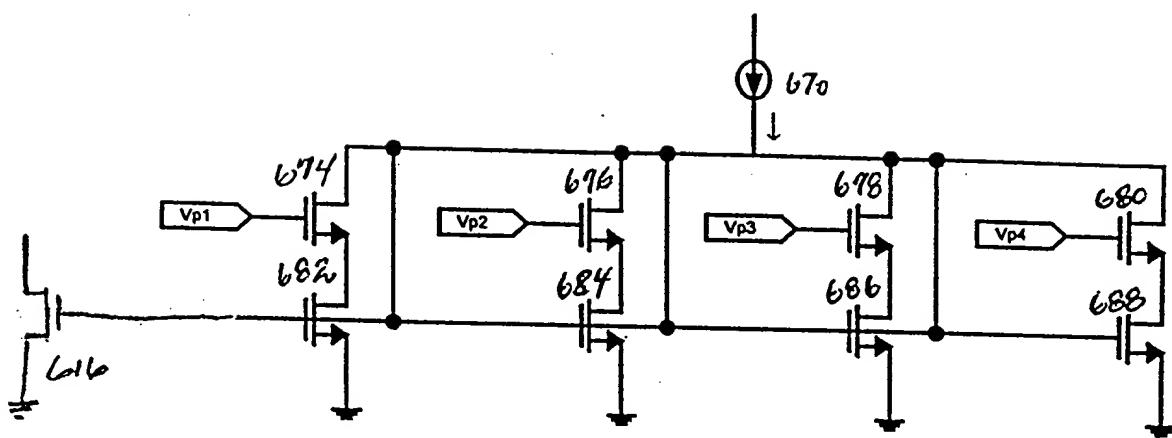


FIG. 28

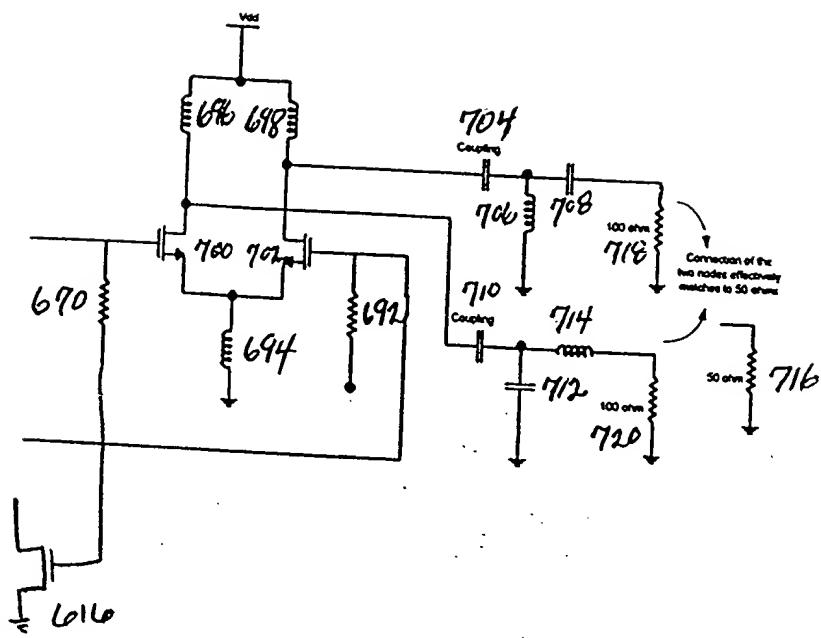


FIG. 29

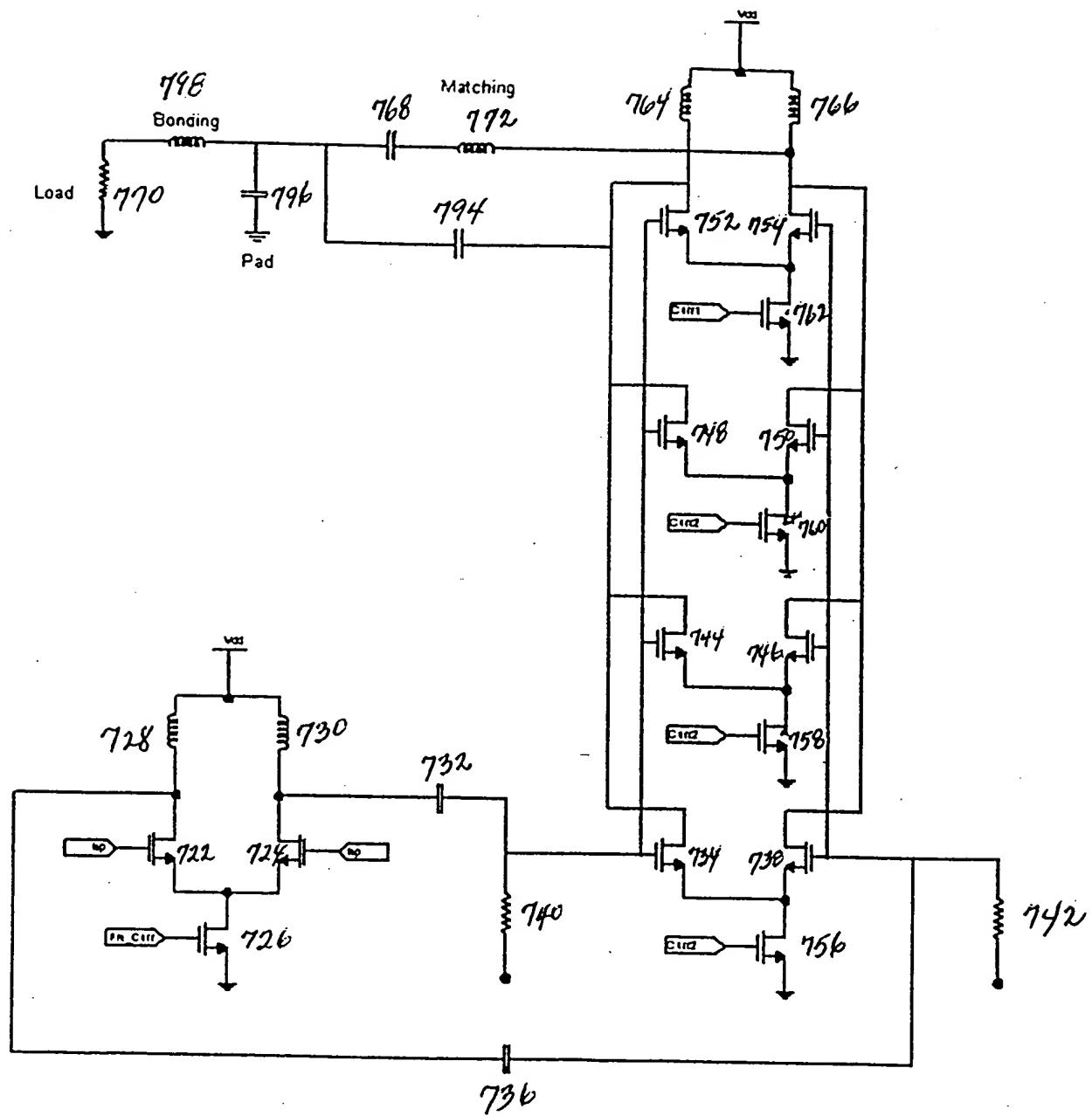


FIG. 30A

FIG. 30b

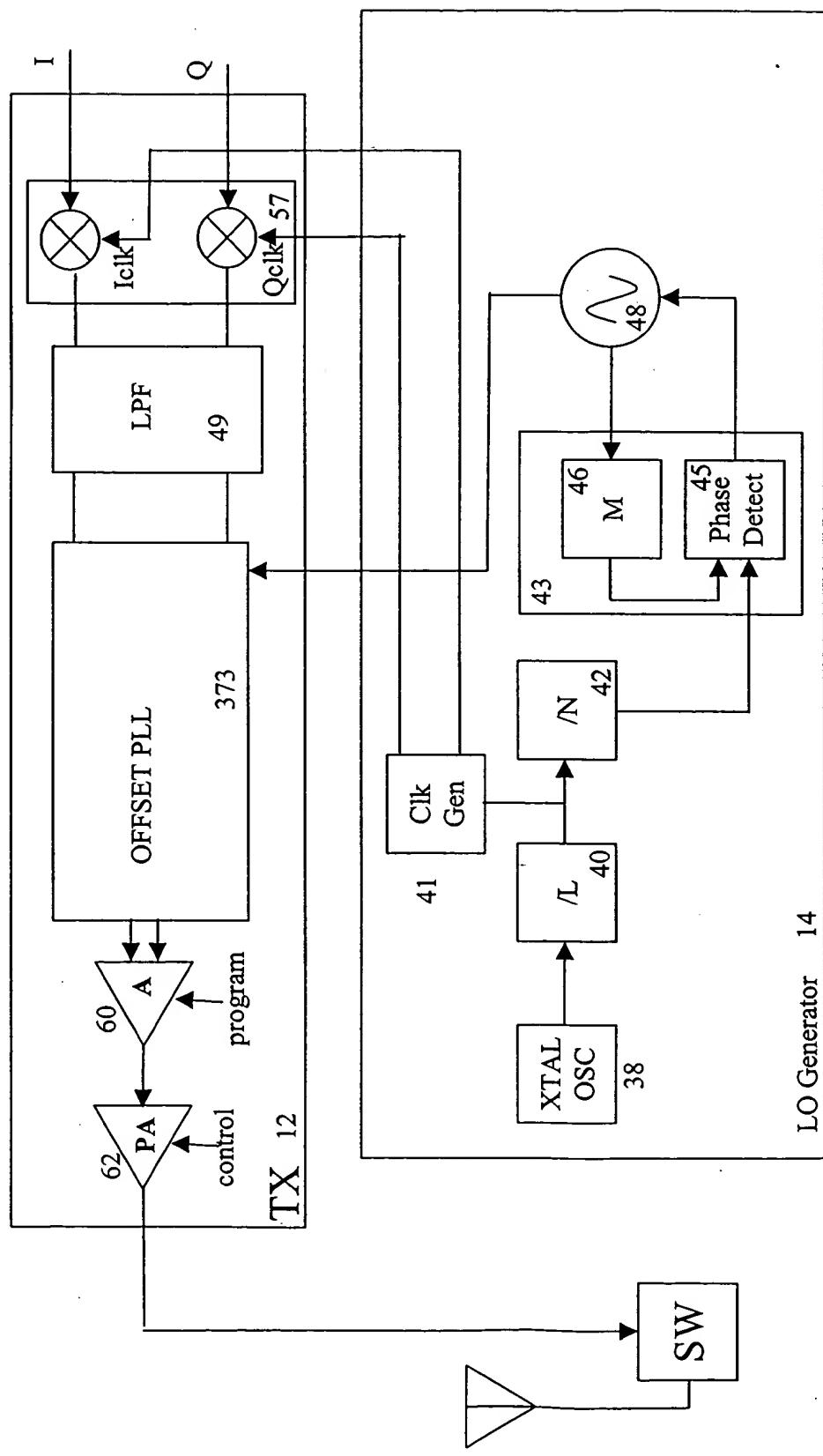


FIG. 30c

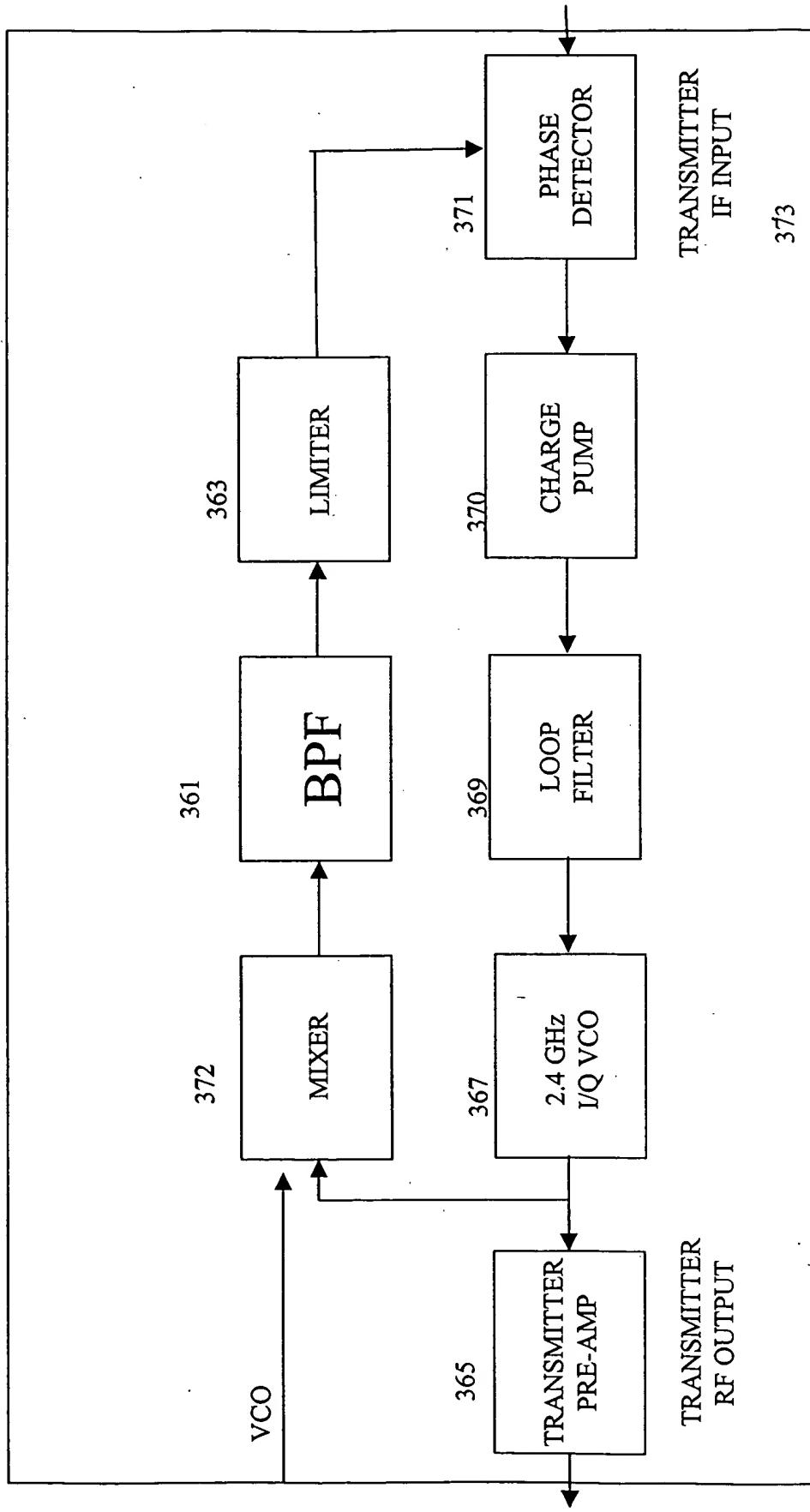
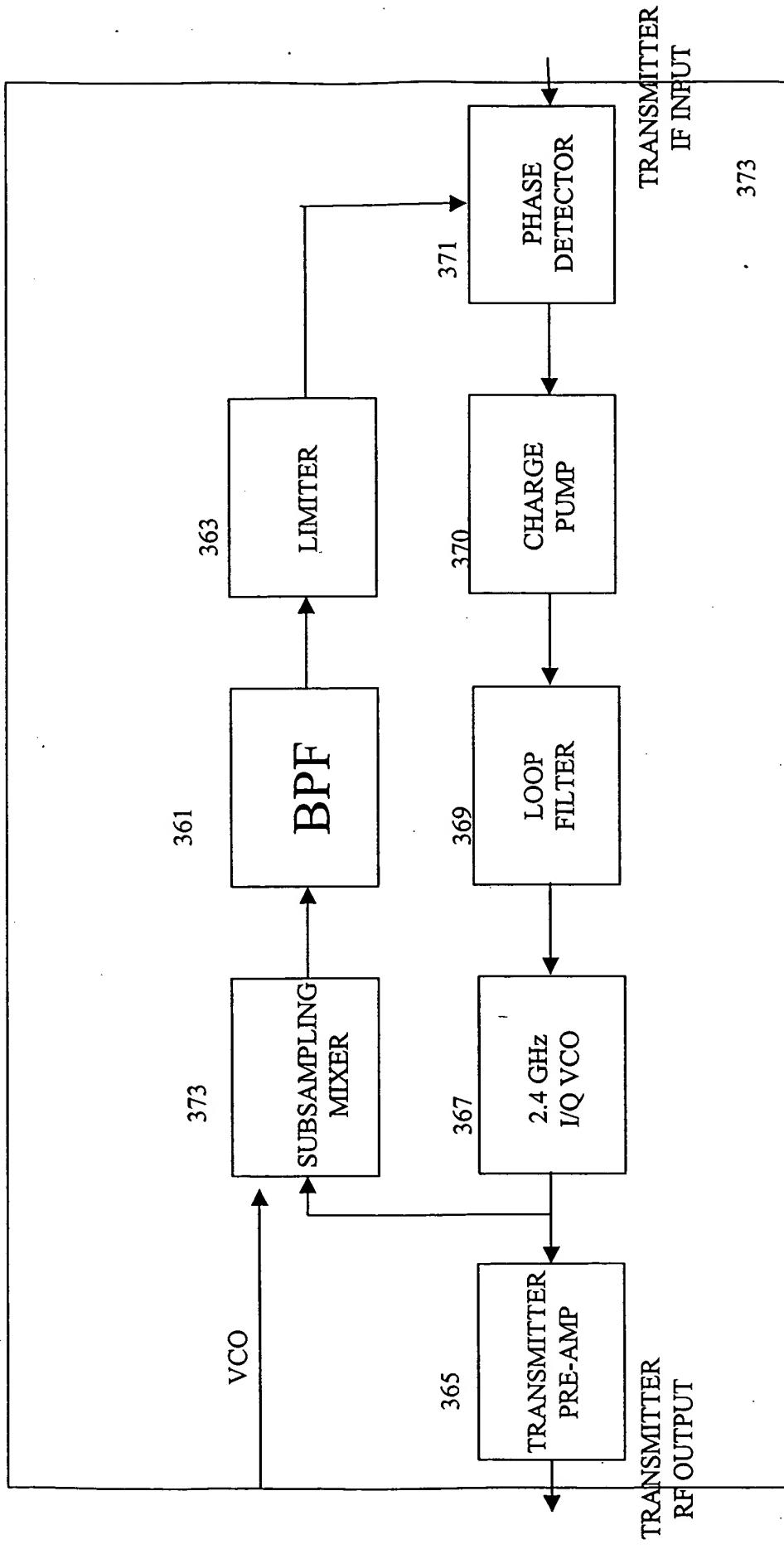


FIG. 30d



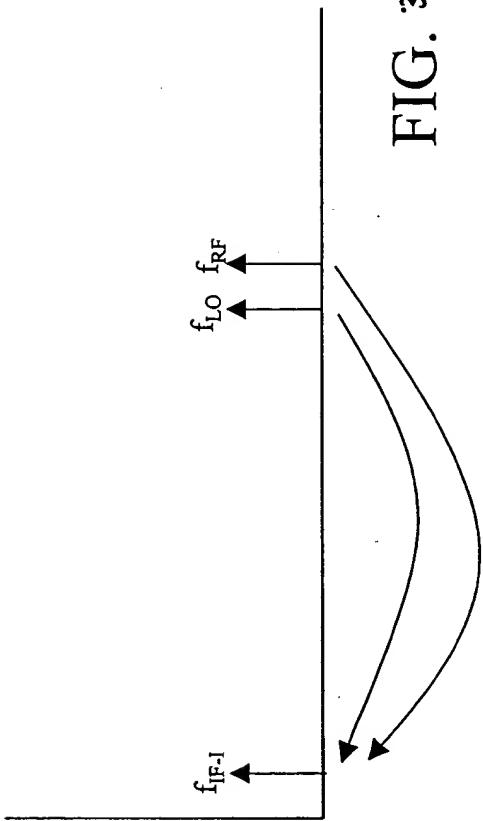


FIG. 304

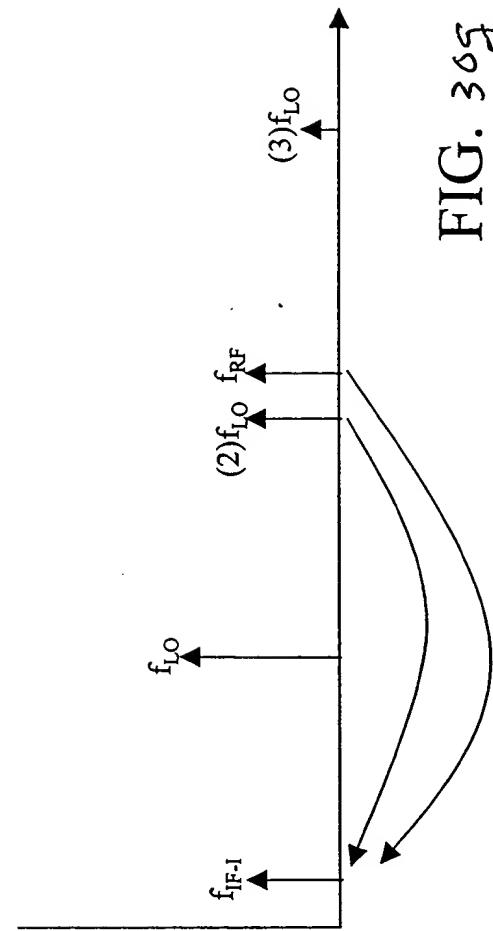


FIG. 36f

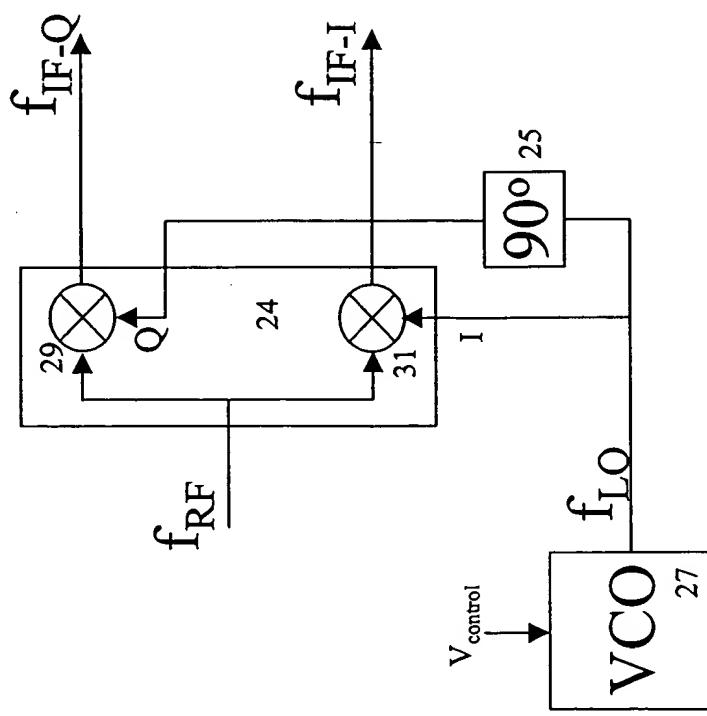


FIG. 30e

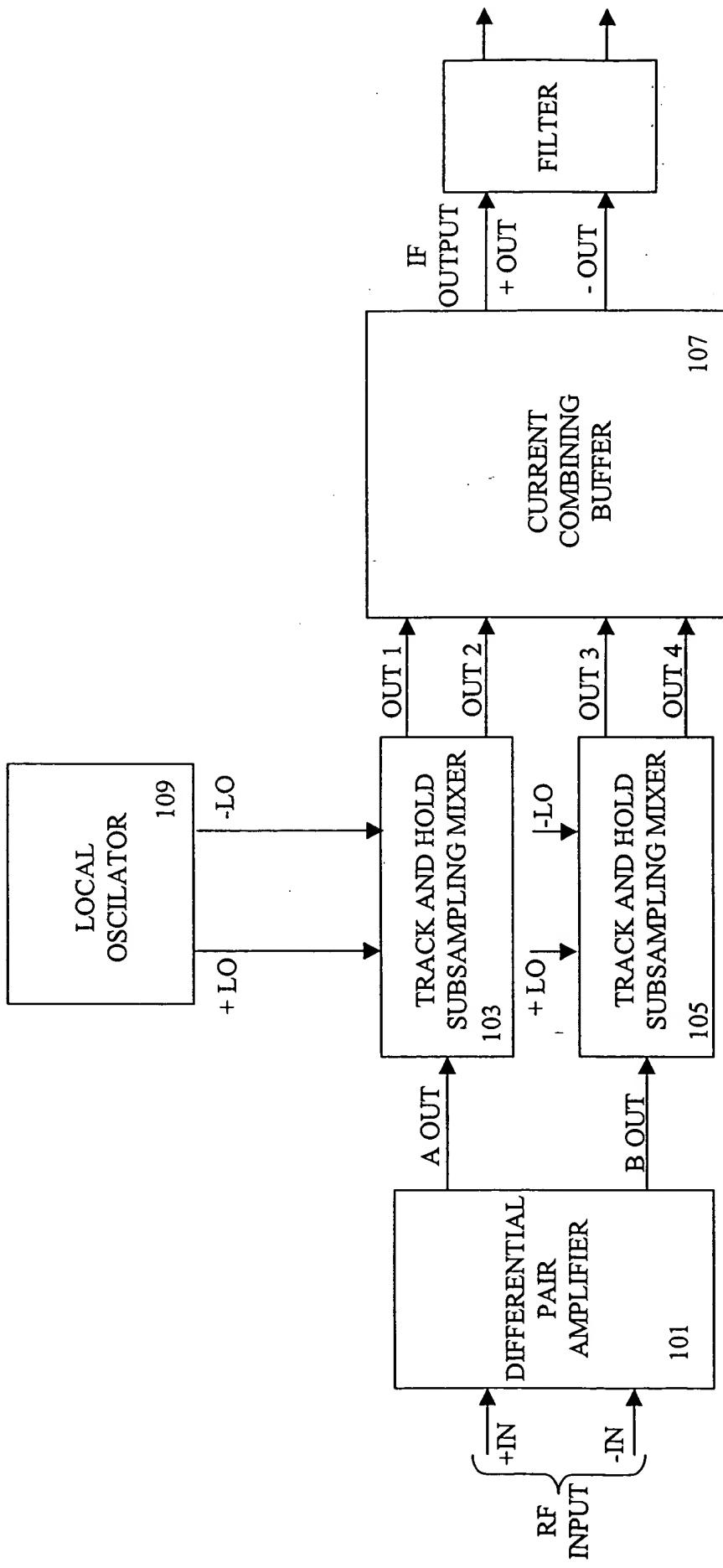


FIG. 30k

FIG. 302

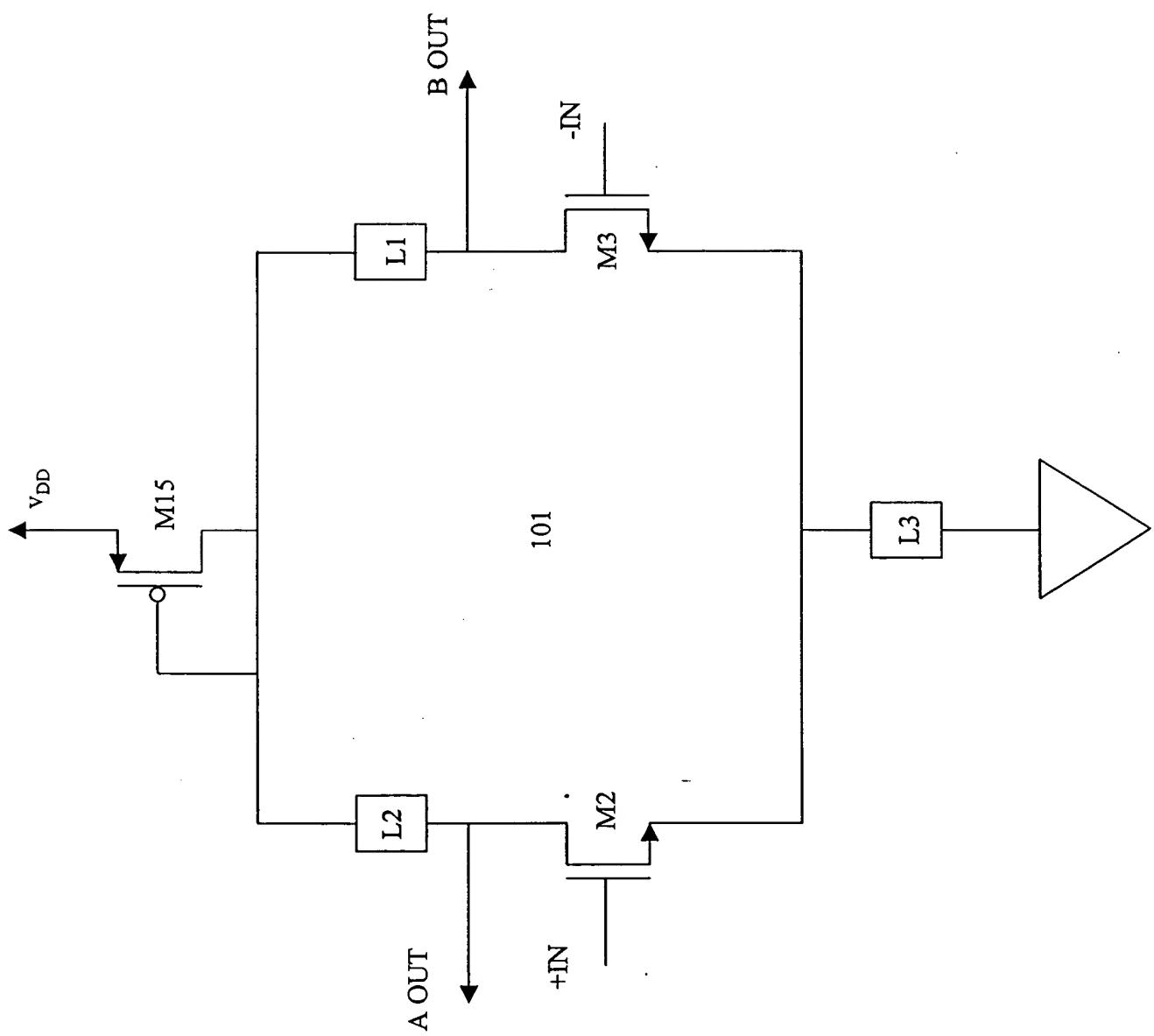
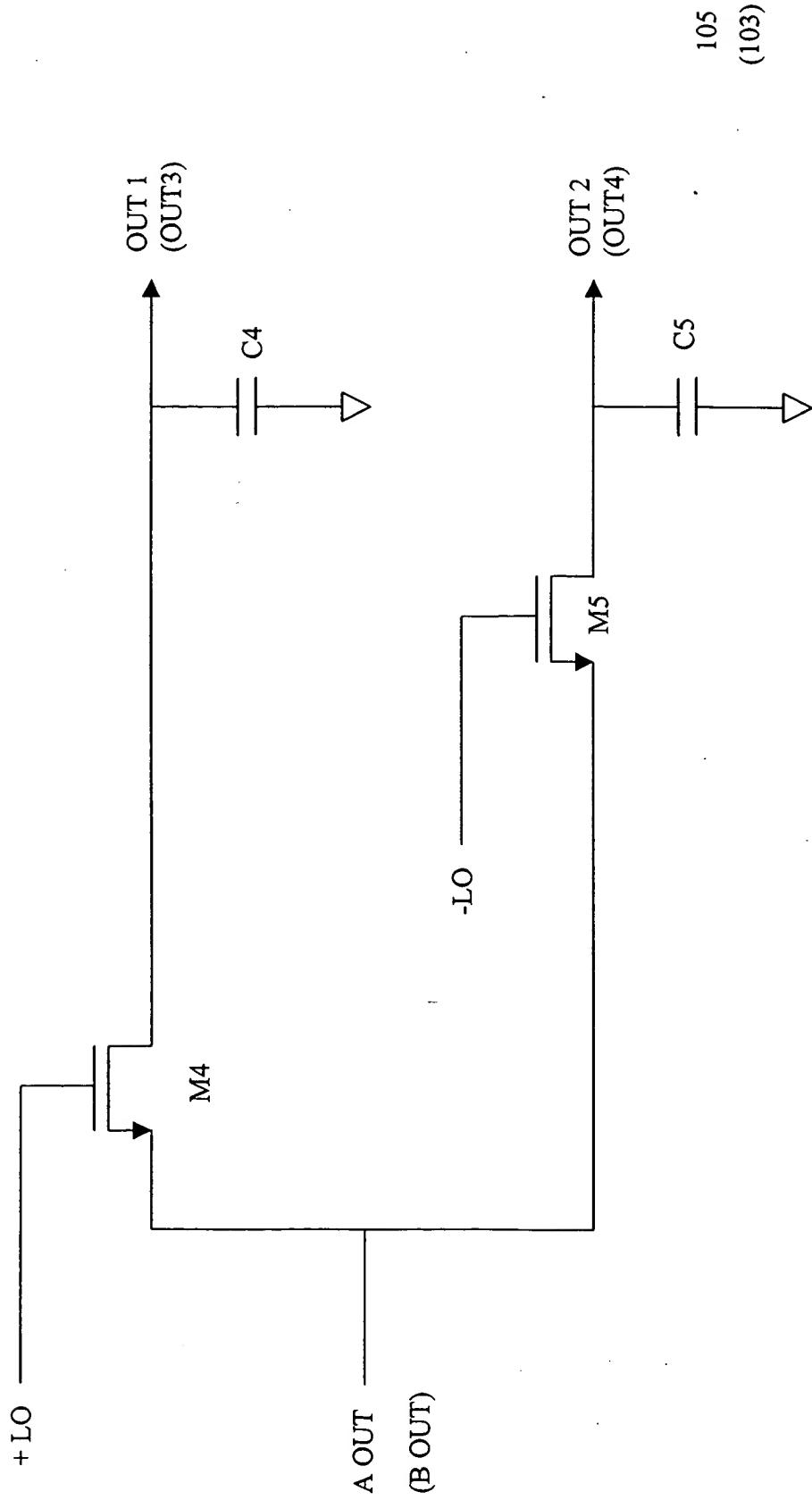


FIG. 30j



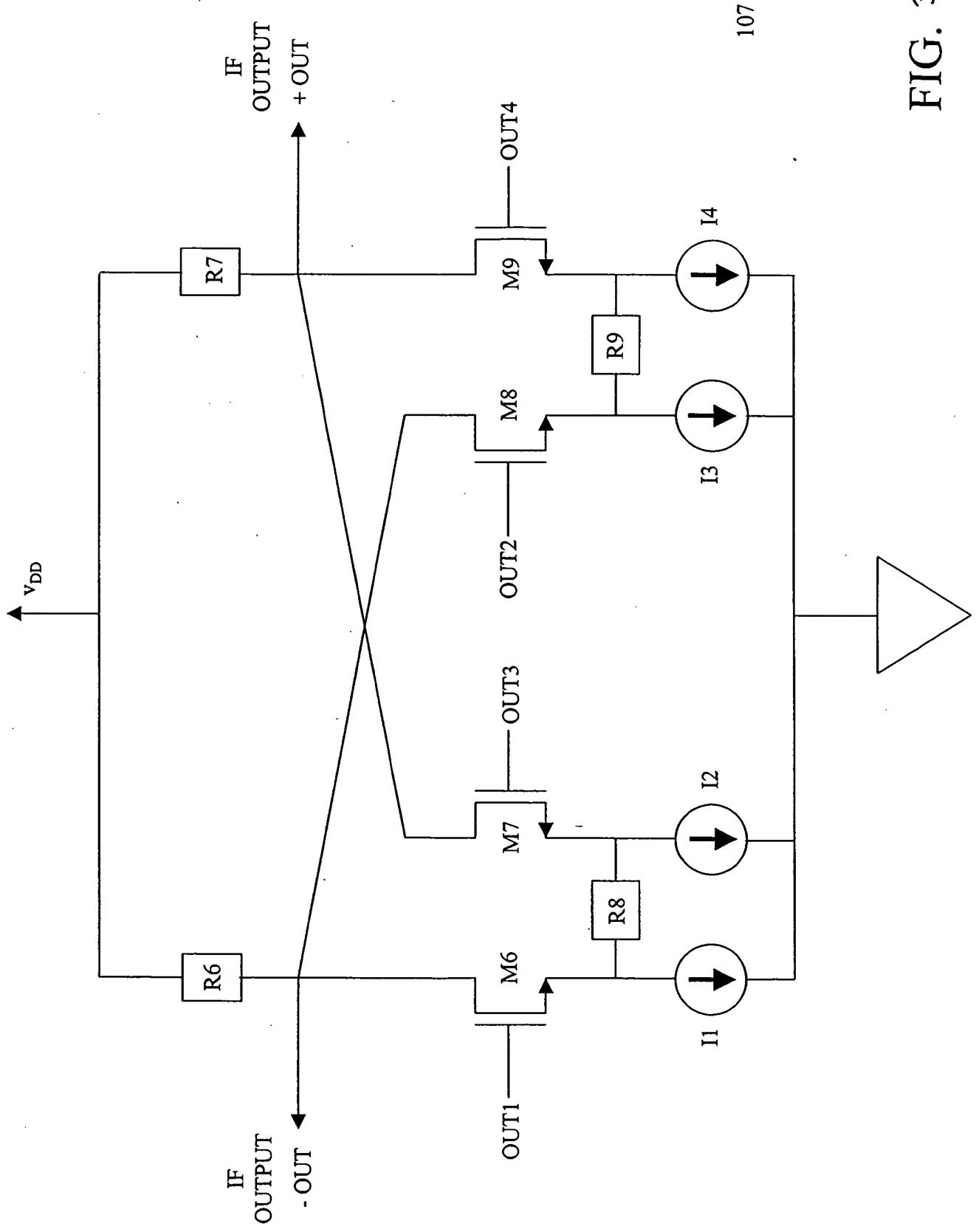
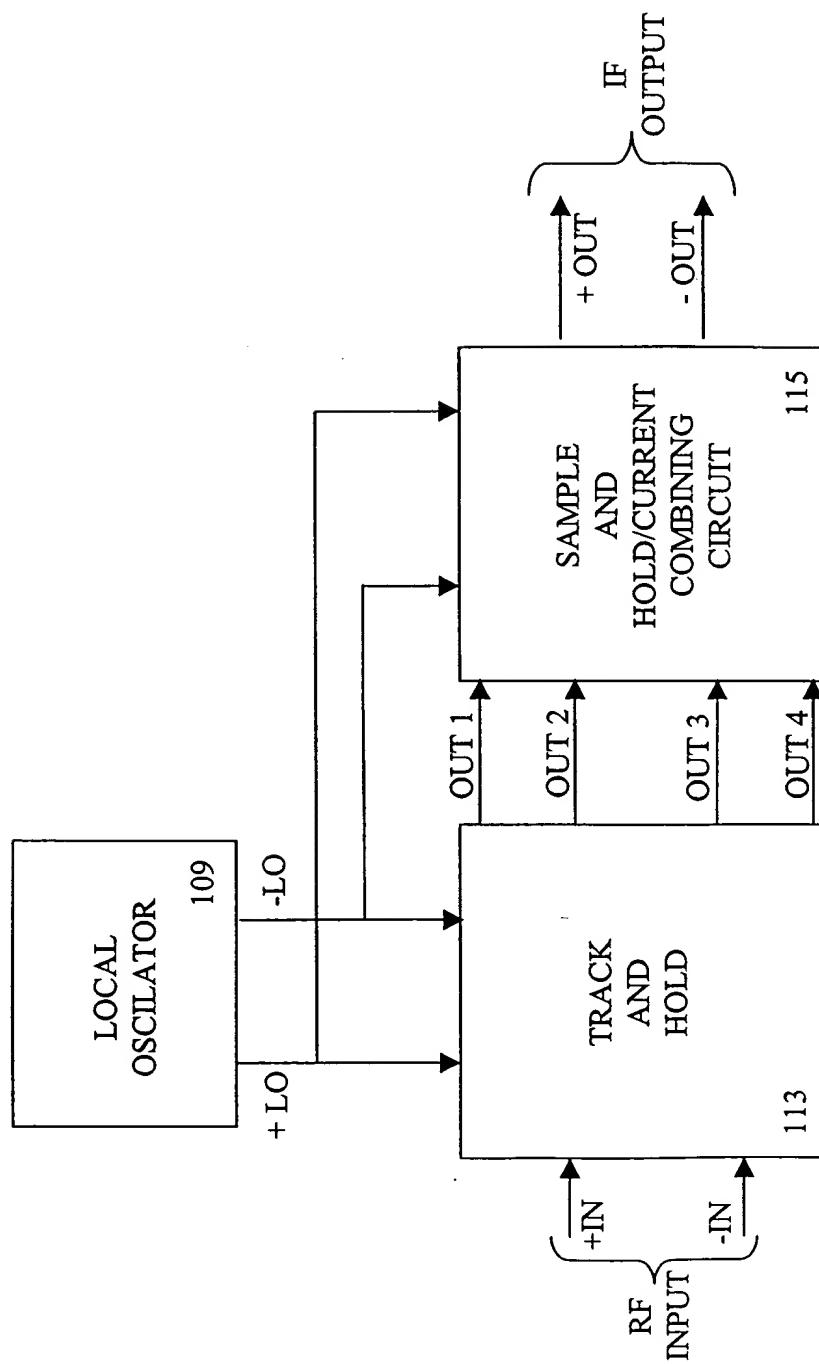
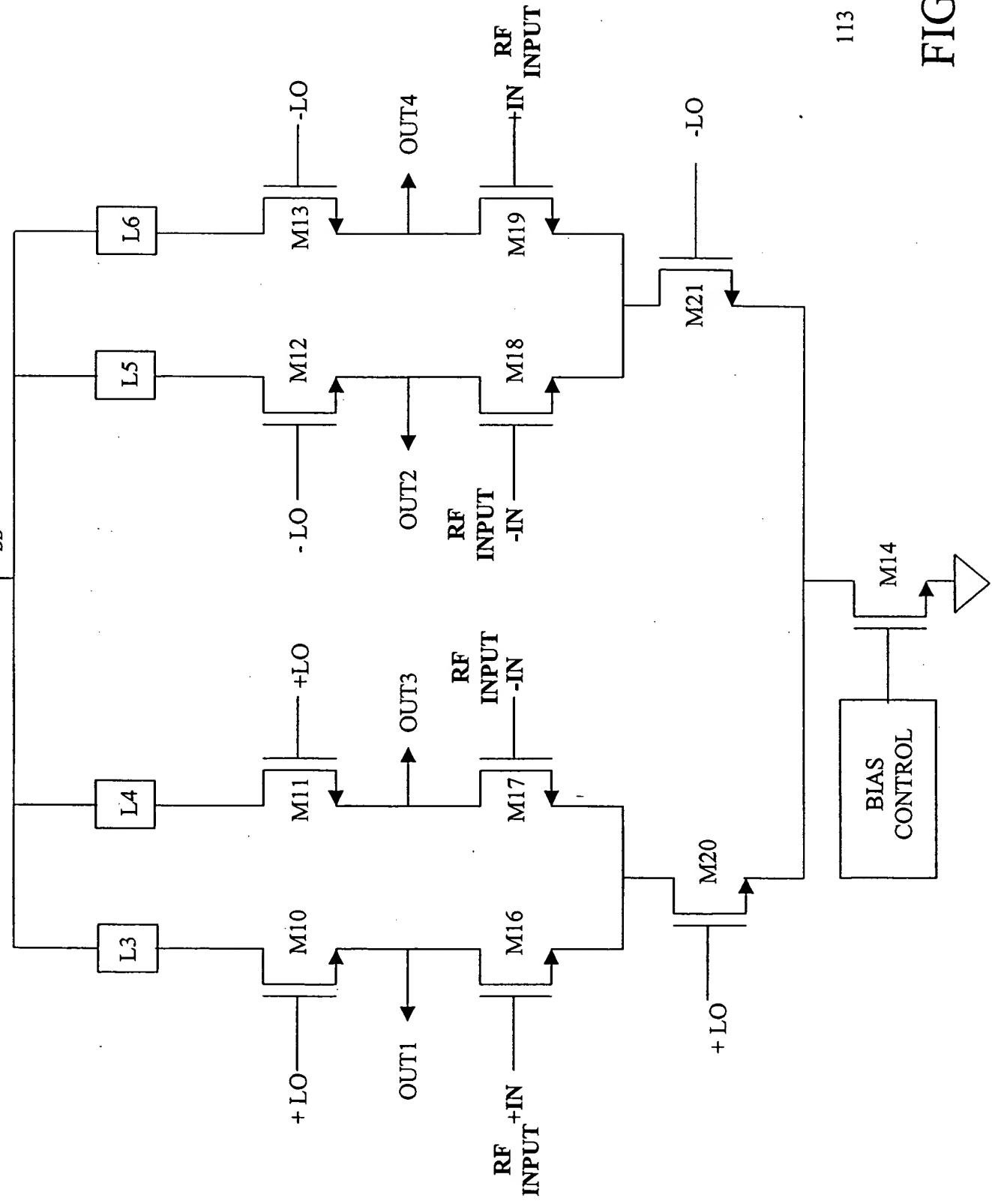


FIG. 30k

FIG. 50L



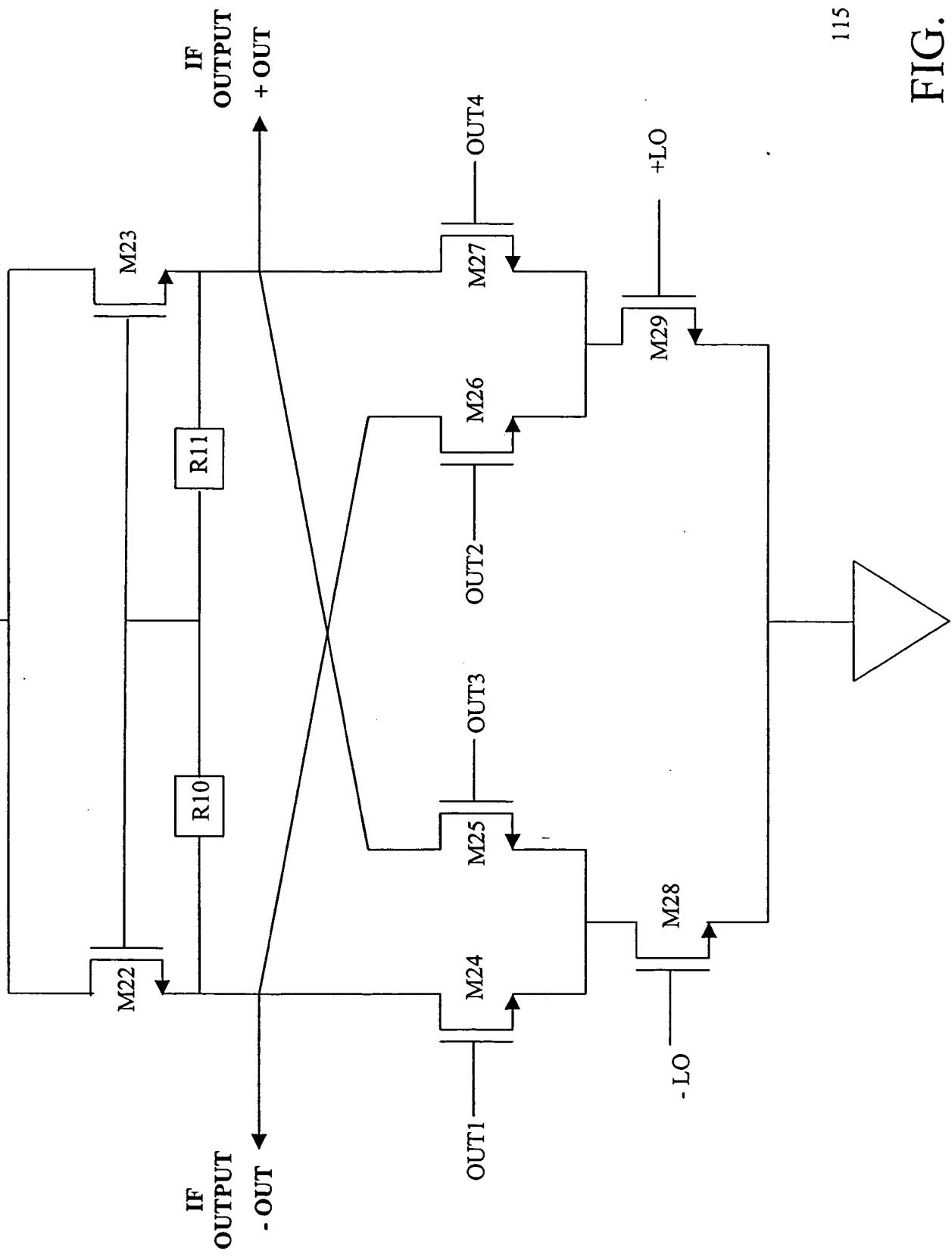
RF INPUT +IN



113

FIG. 30.m

V_{DD}



115

FIG. 30H

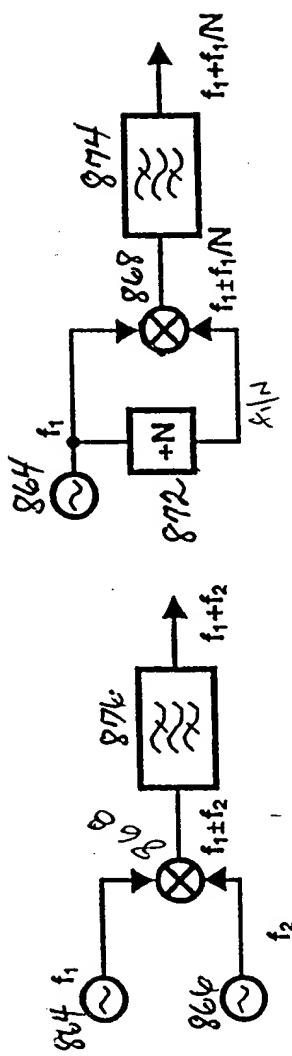


Fig. 31 (b)

FIG. 31 (a)

864 f_1 876 $\div N$ 878 880 f_1/N Q Q

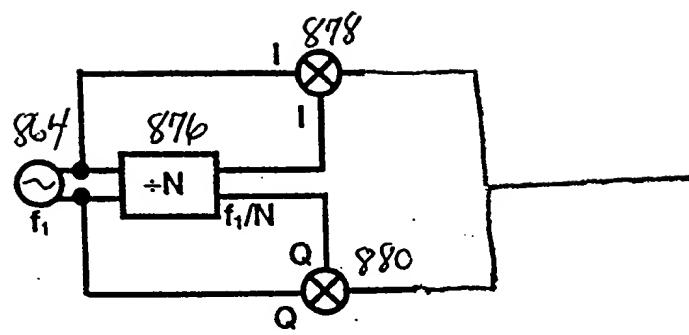
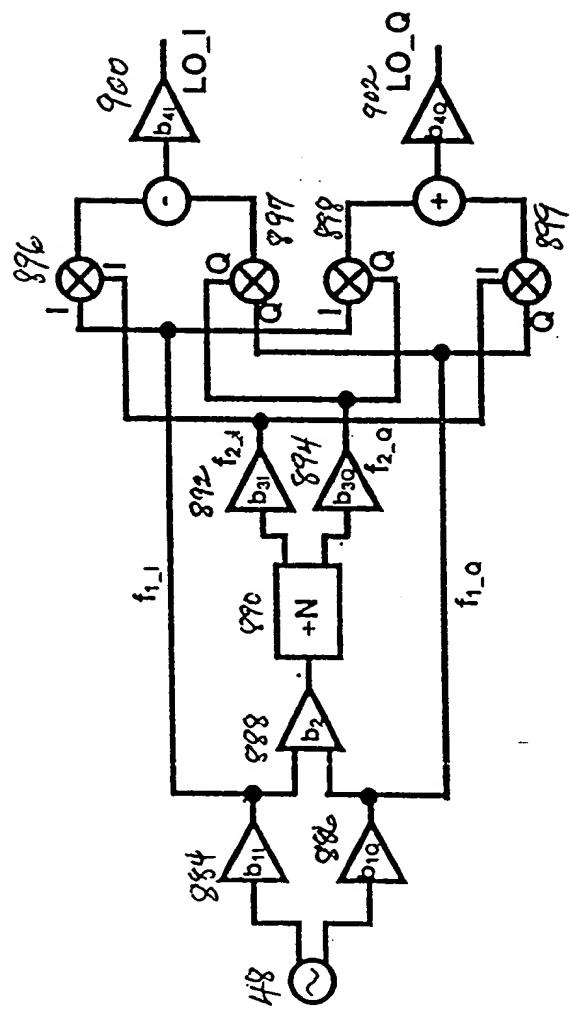


FIG. 32

FIG. 33(a)



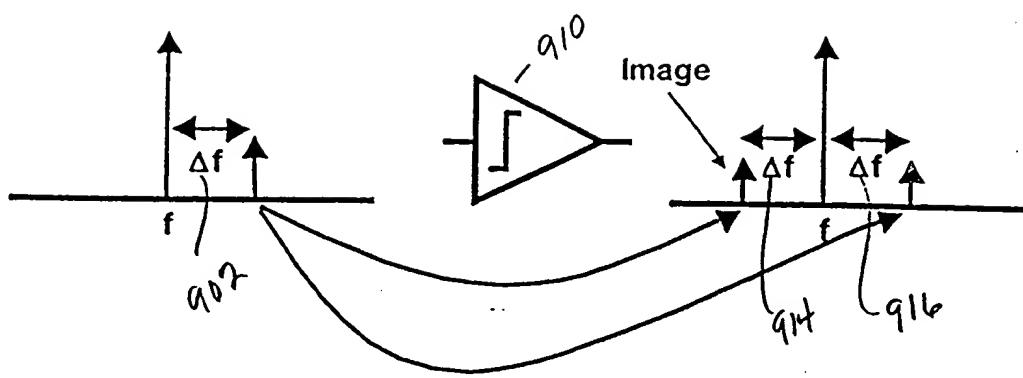


FIG. 33(b)

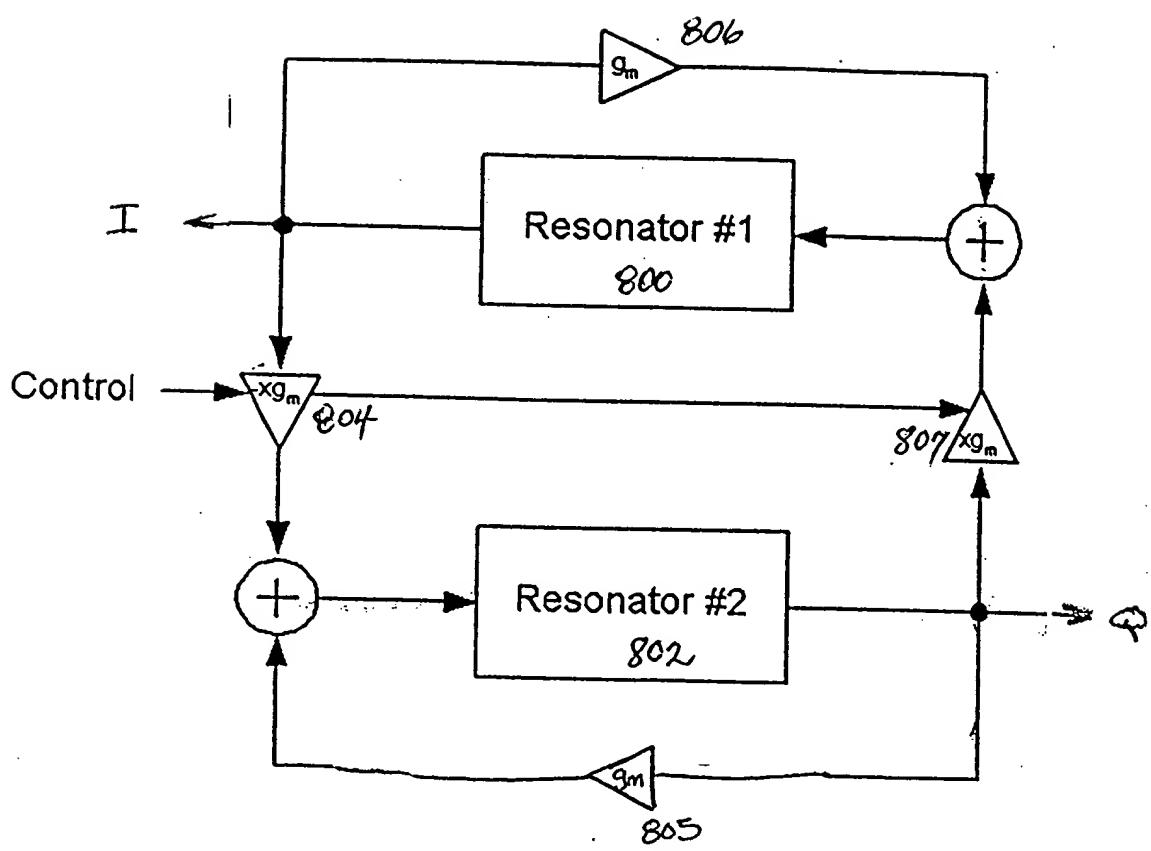


FIG. 34

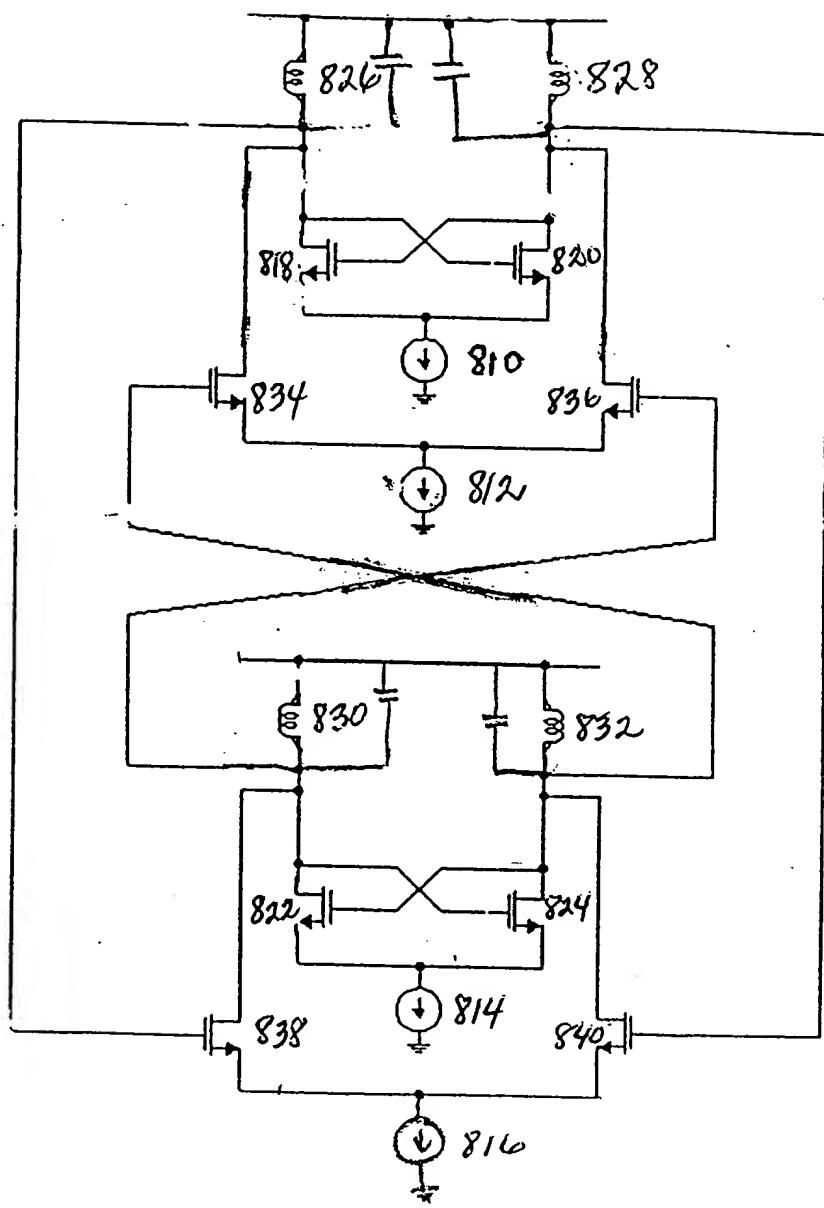


FIG. 35

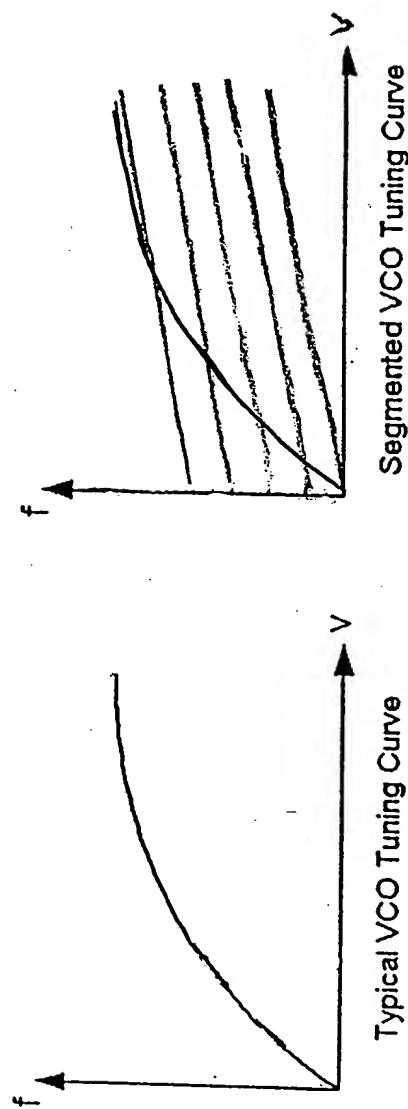
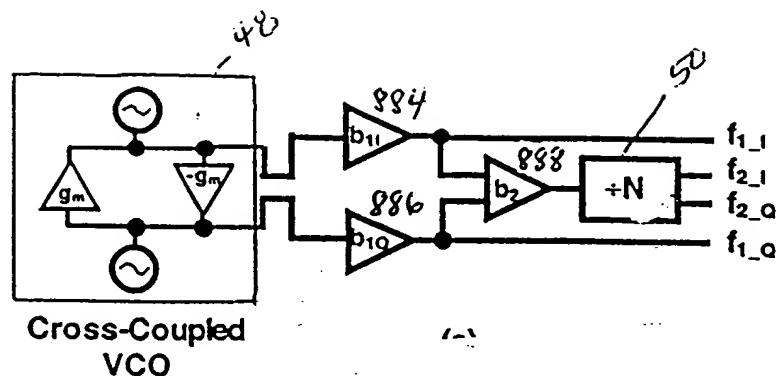


FIG. 36(b)

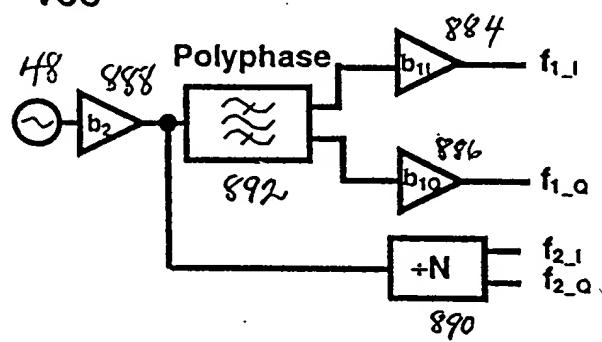
FIG. 36(a)

FIG. 37(a)



Cross-Coupled VCO

FIG. 37(b)



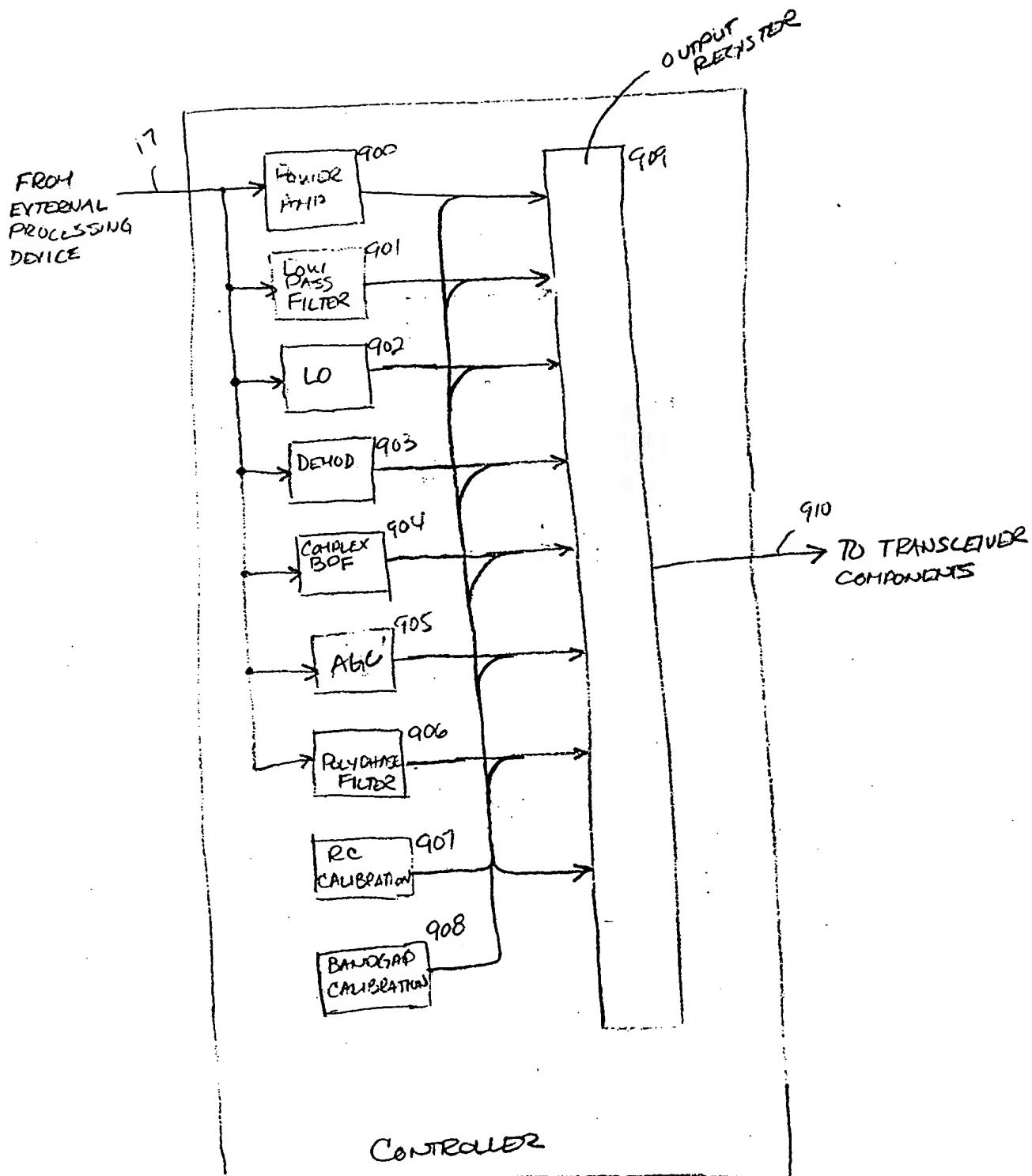


FIGURE 38

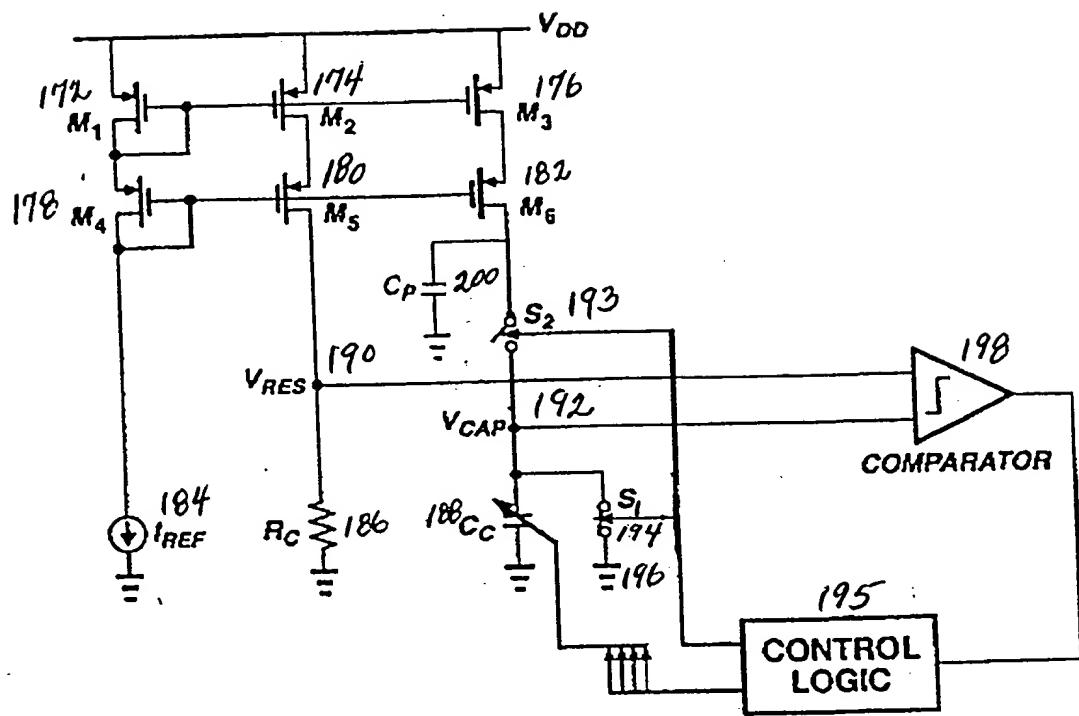


FIG. 39

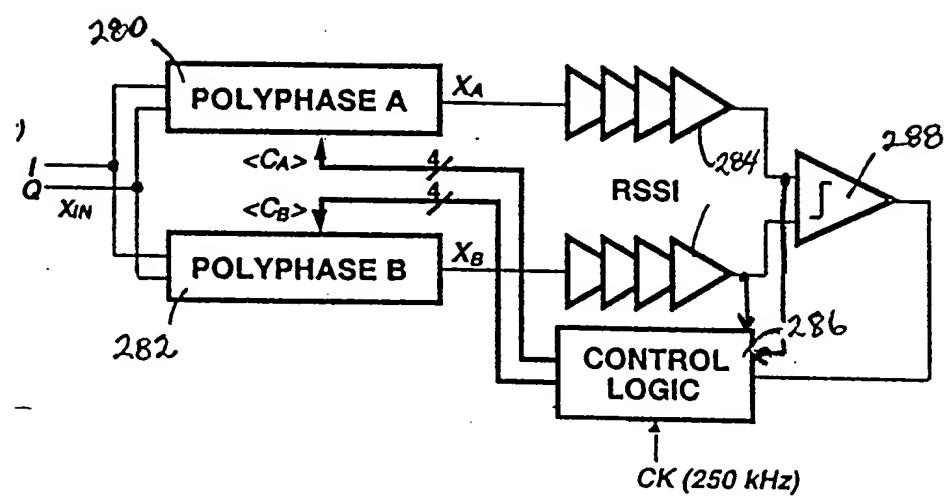


FIG. 40

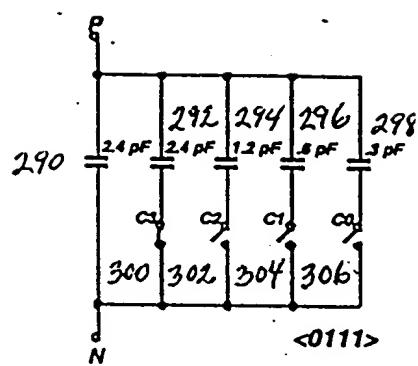


FIG. 41

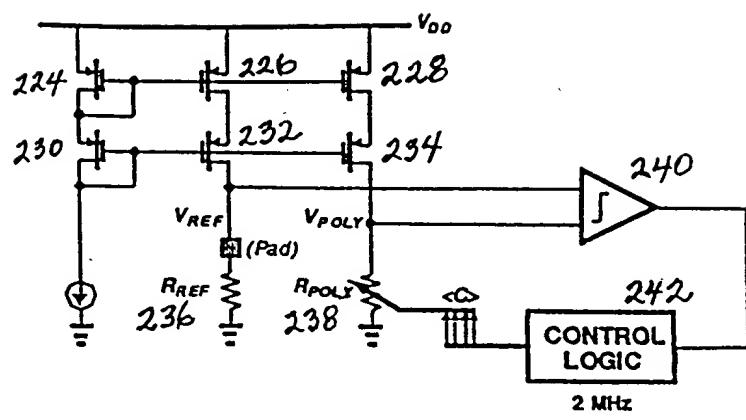


FIG. 42

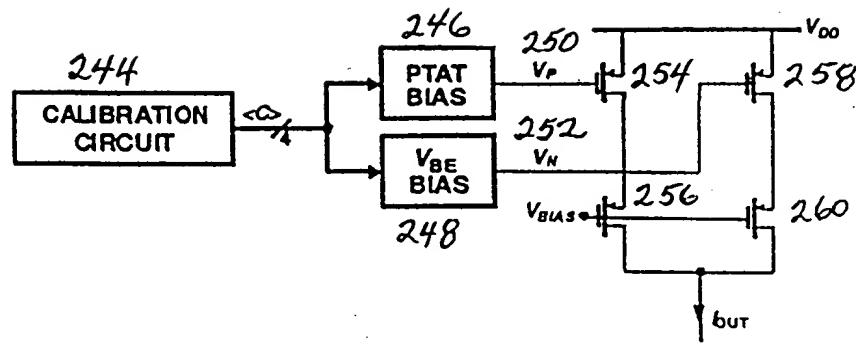


FIG. 43

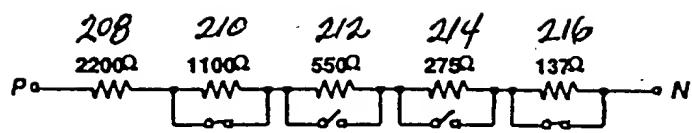


FIG. 44

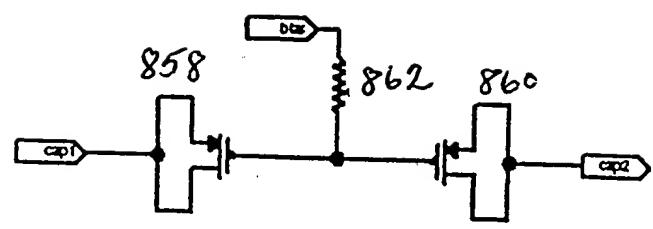


FIG. 45

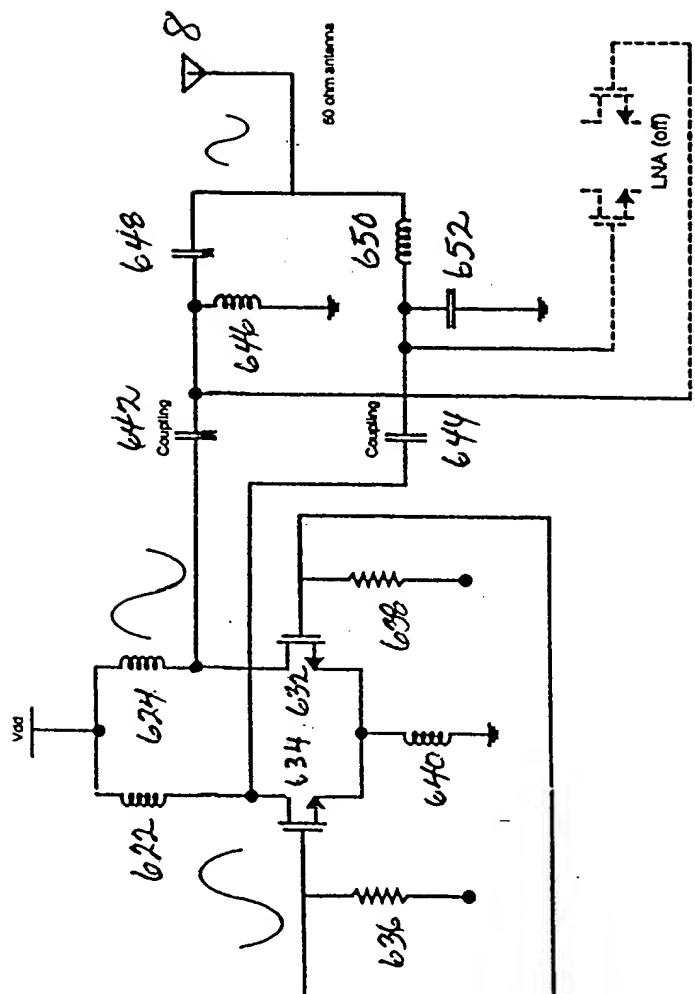


FIG. 46

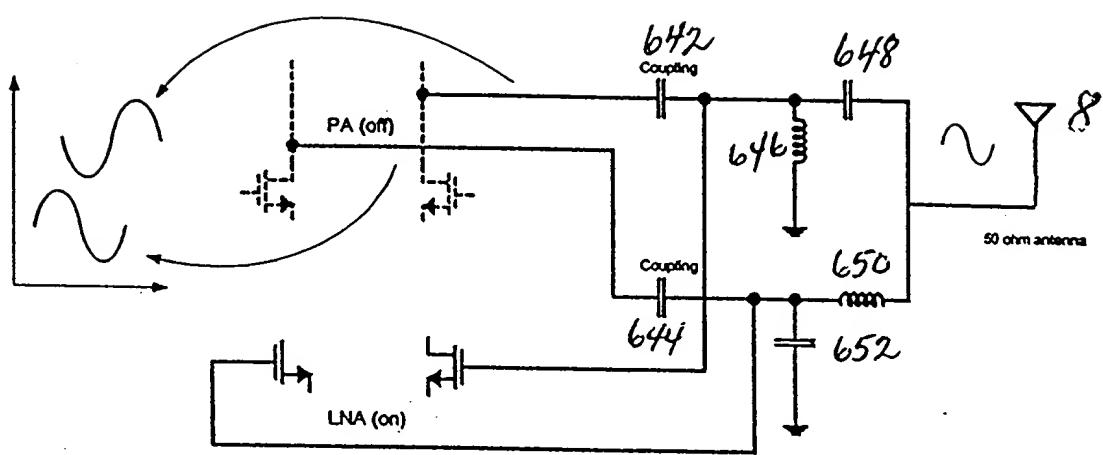


FIG. 47

FIG. 48a

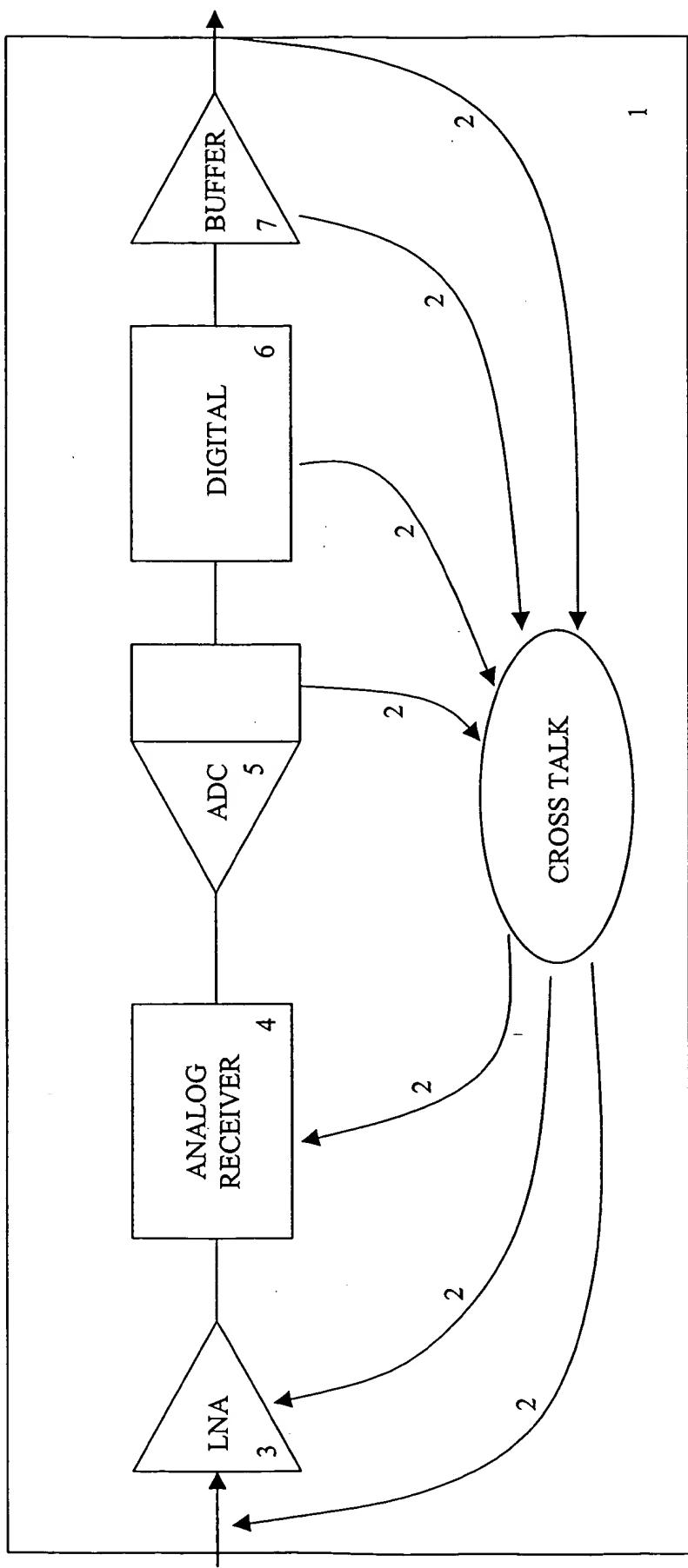


FIG. 486

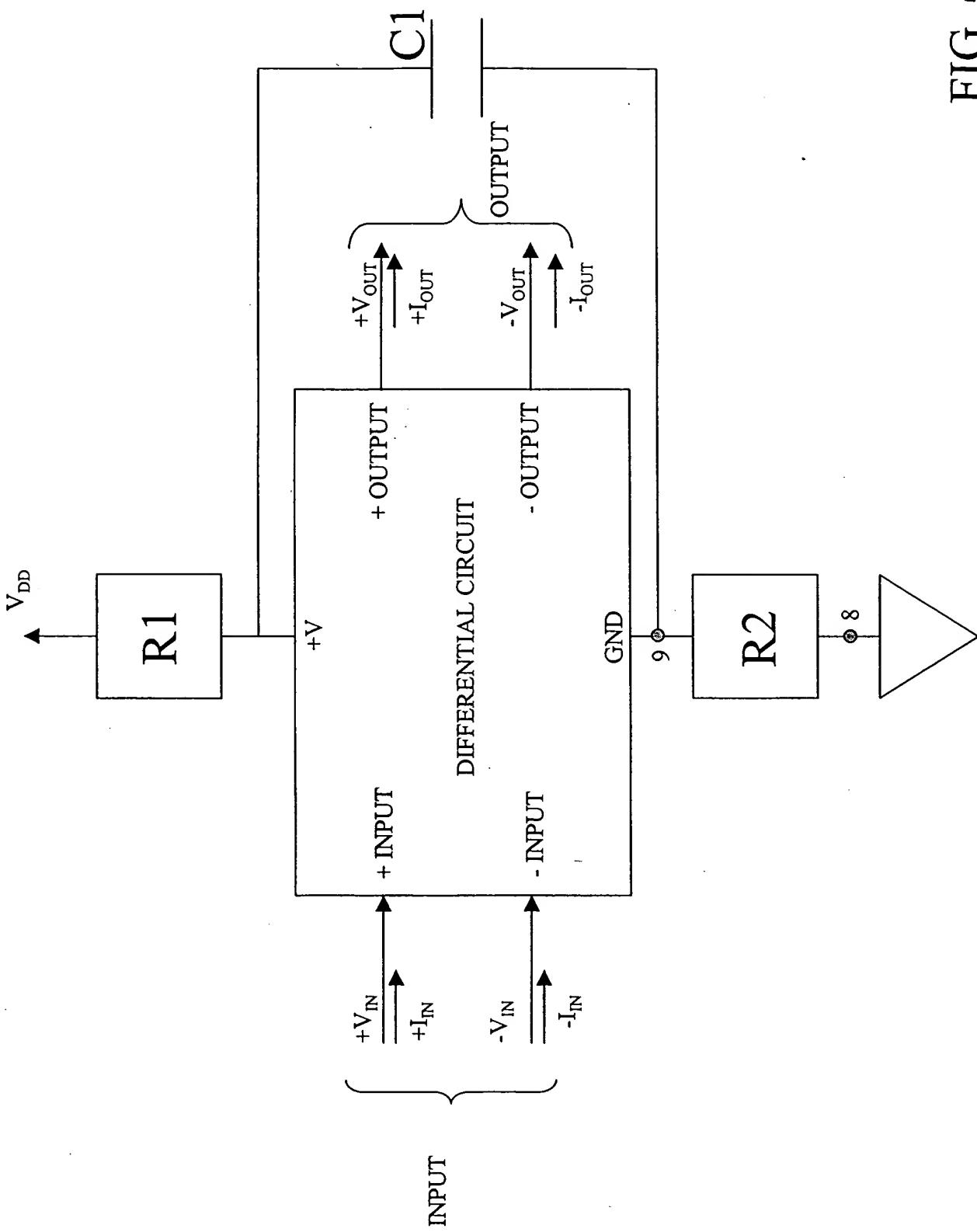


FIG. 48c

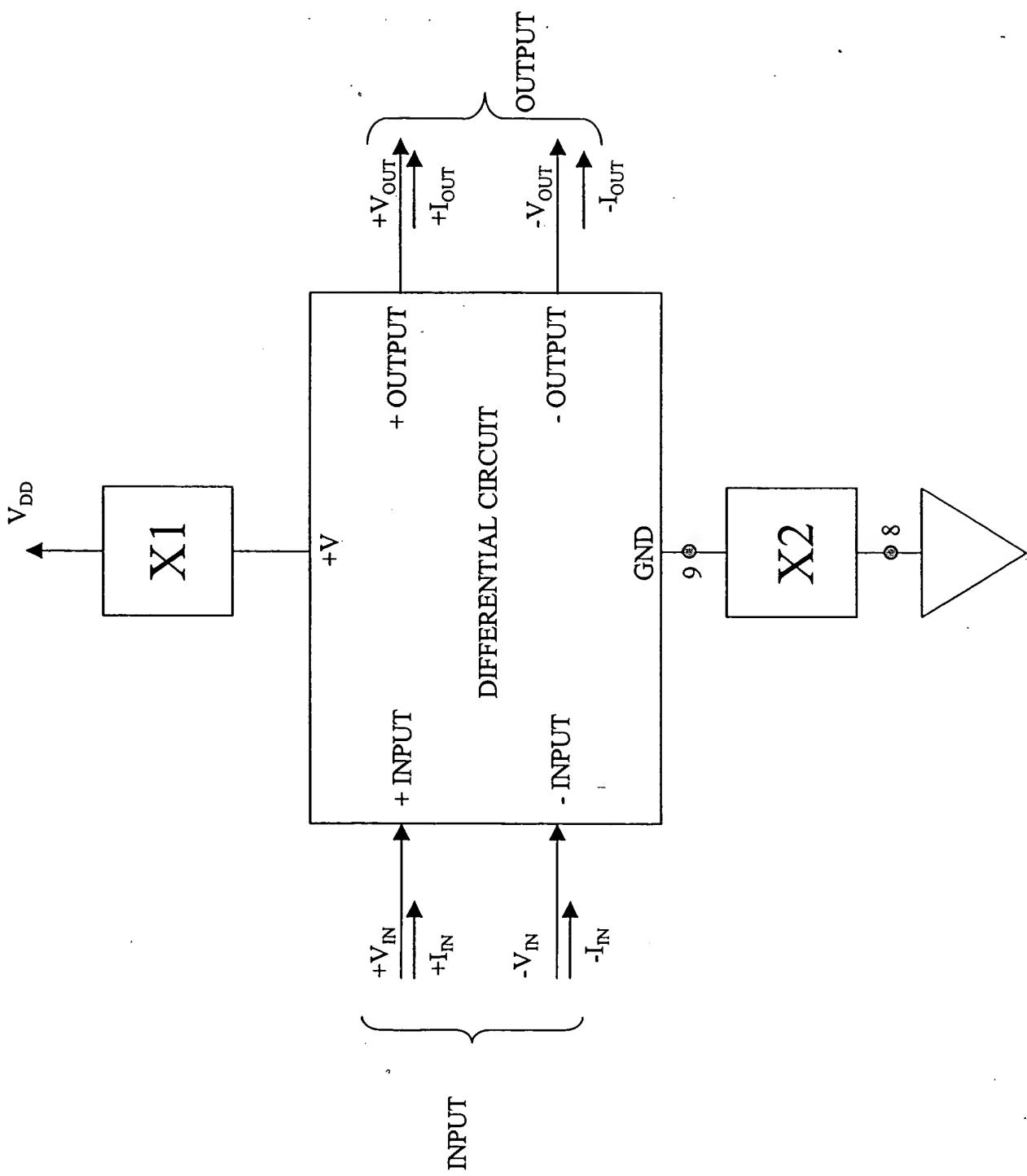


FIG. 48d

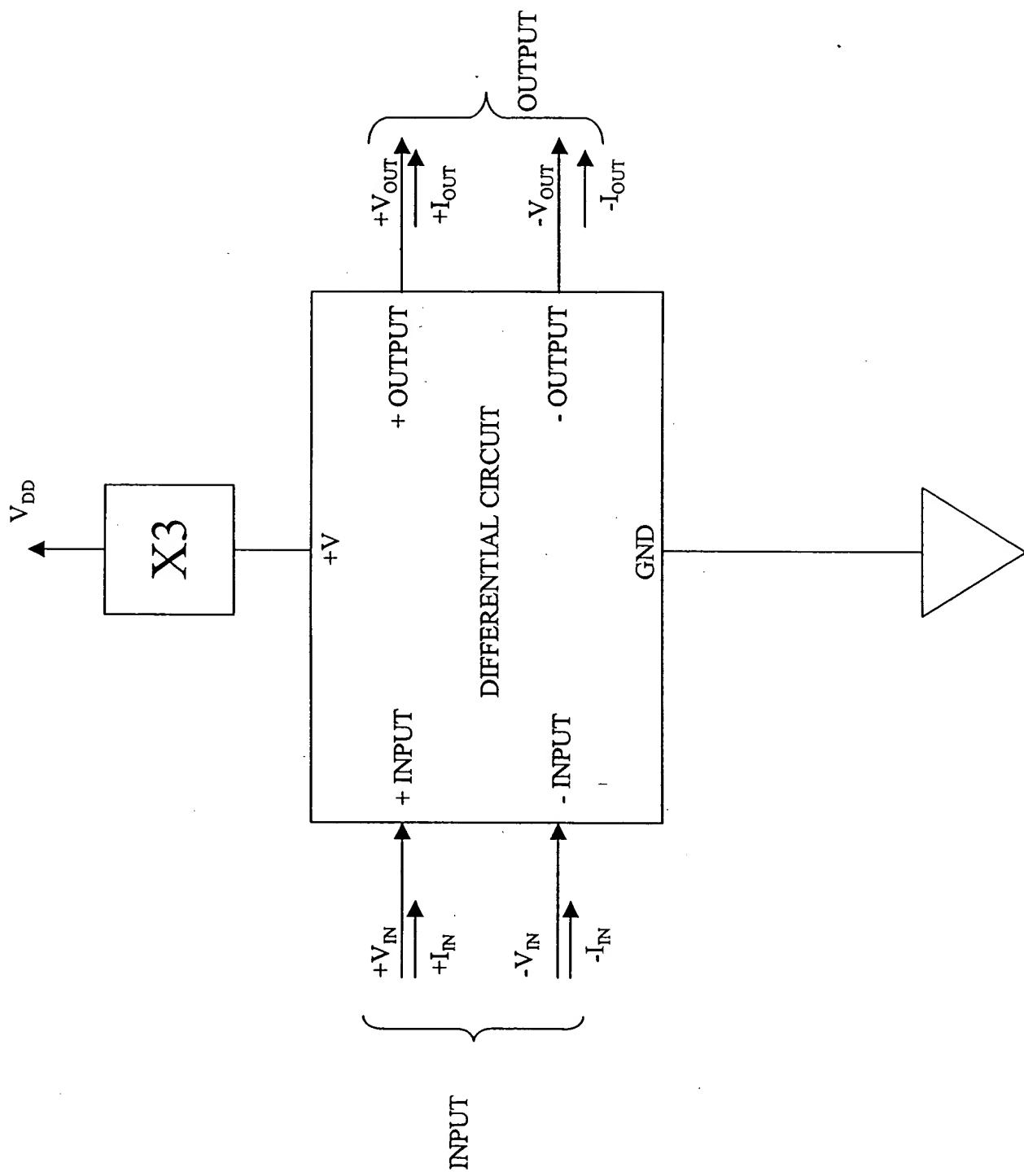


FIG. 48e

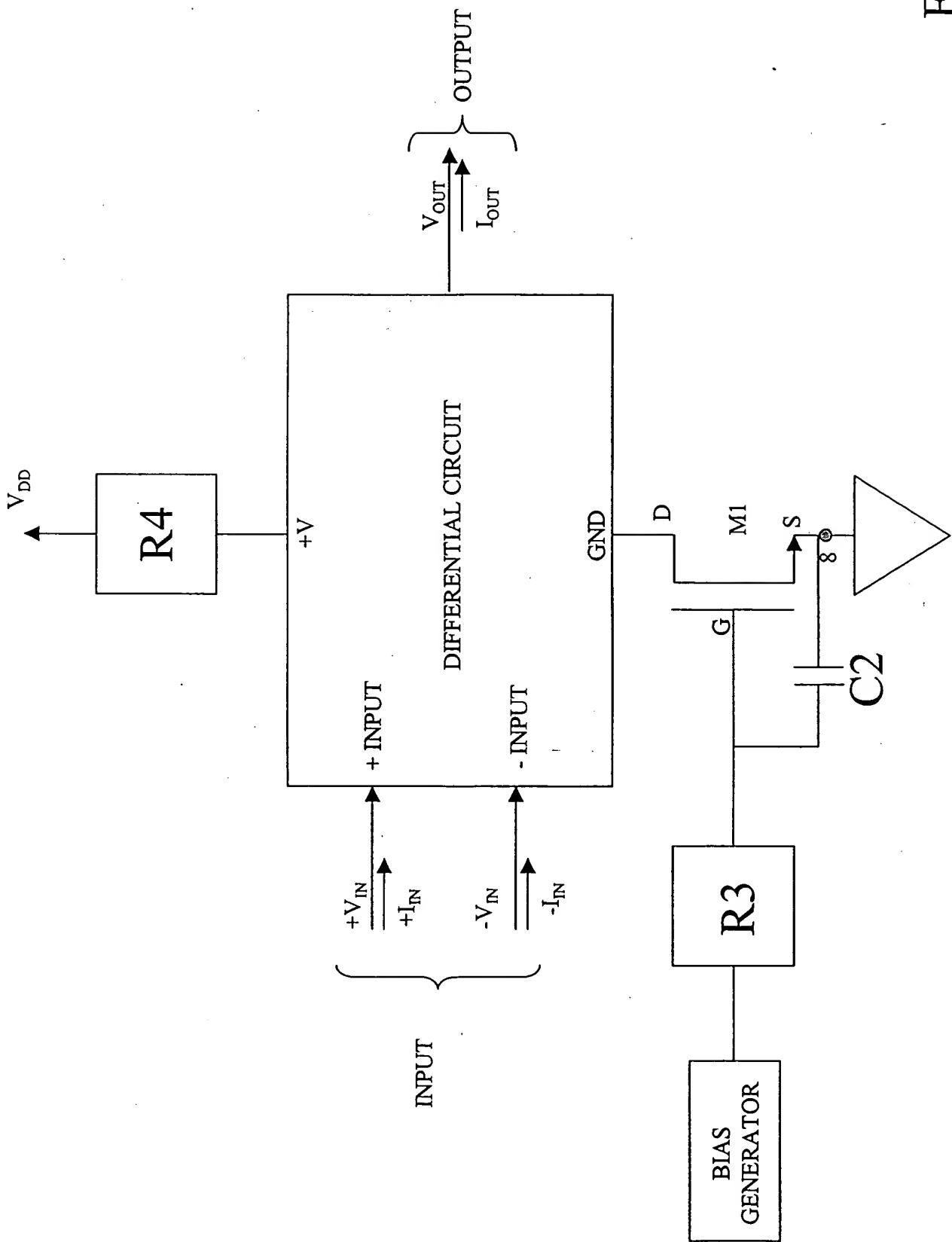


FIG. 48f

